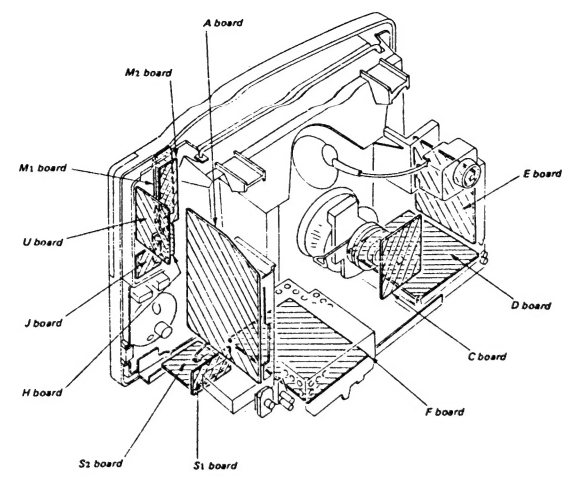
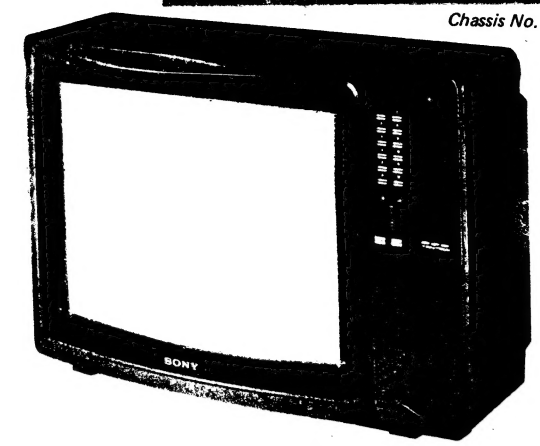


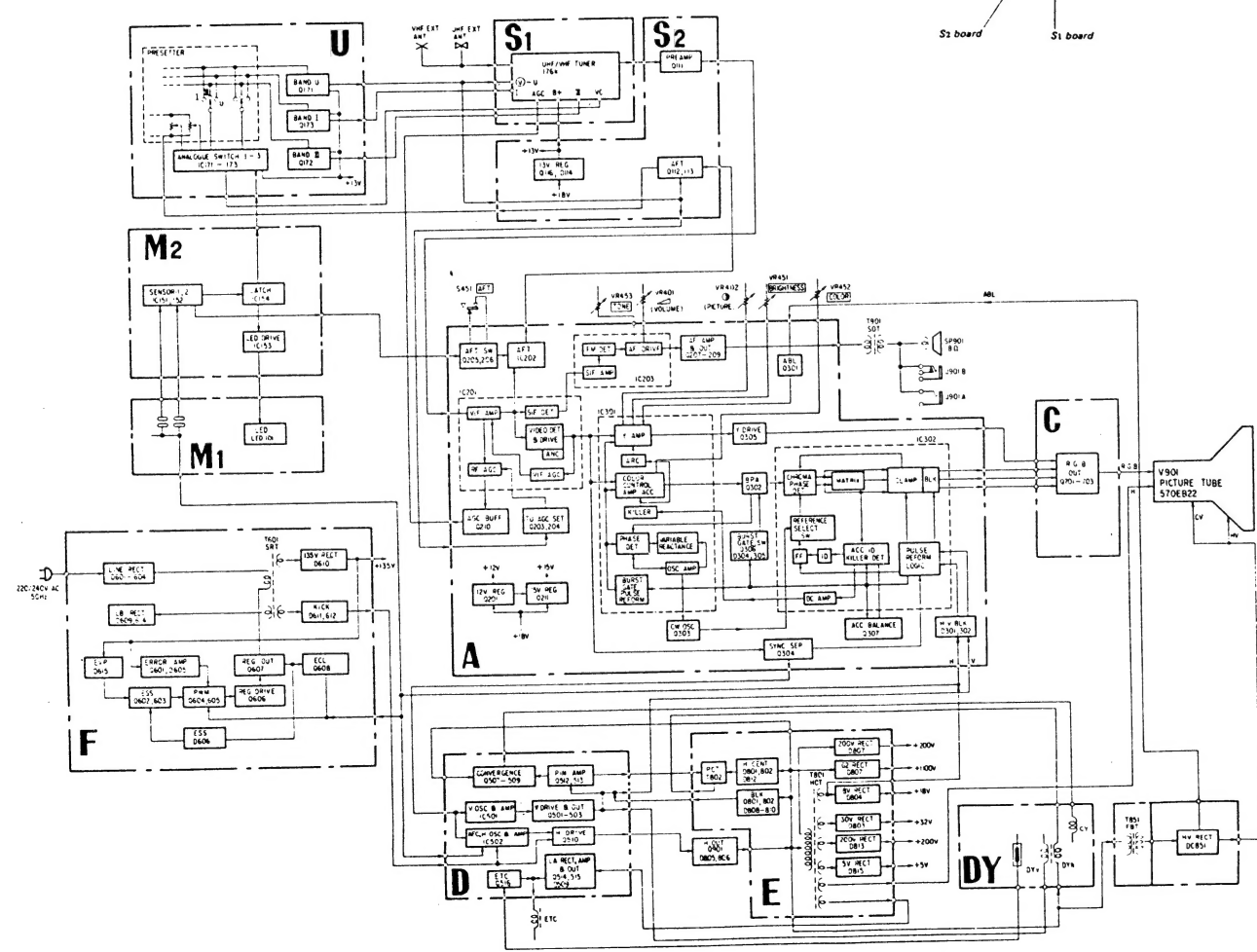
KV-2200E

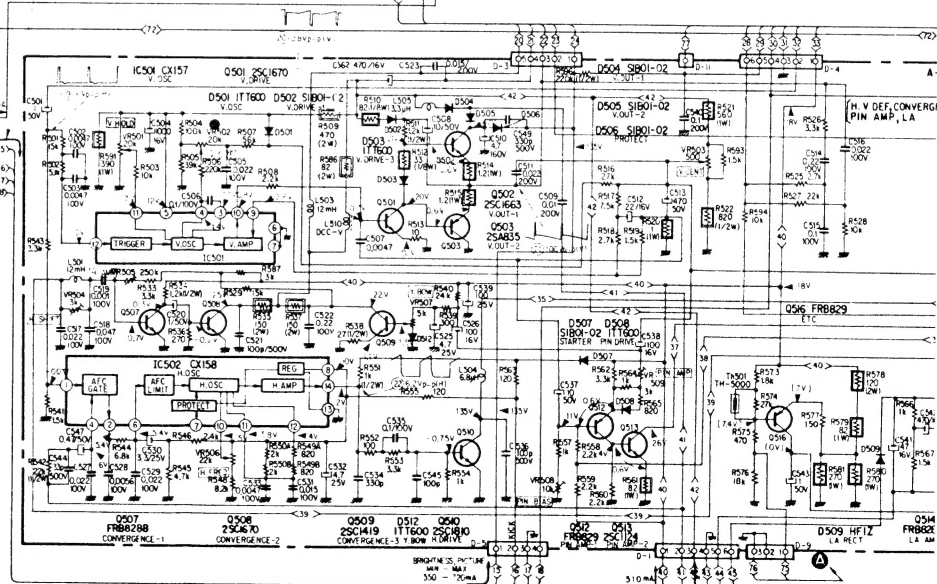
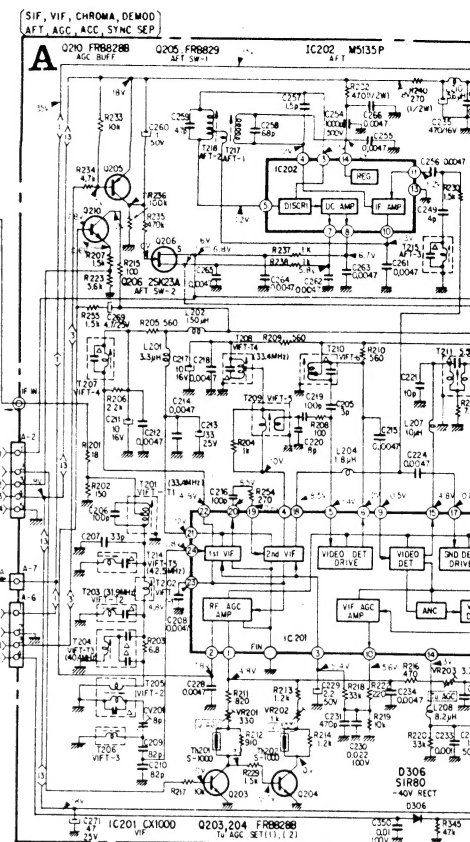
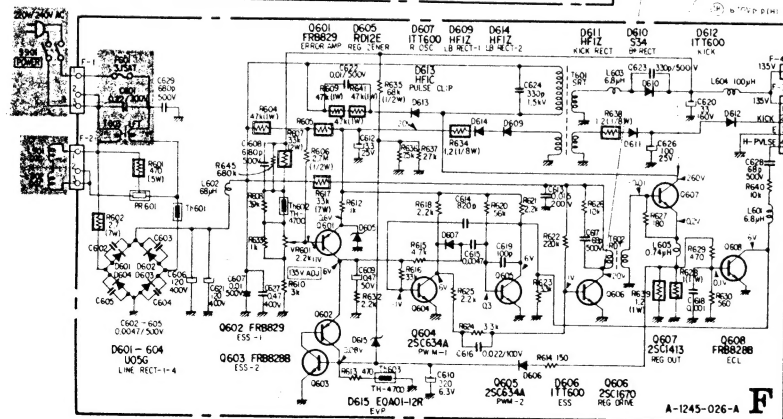
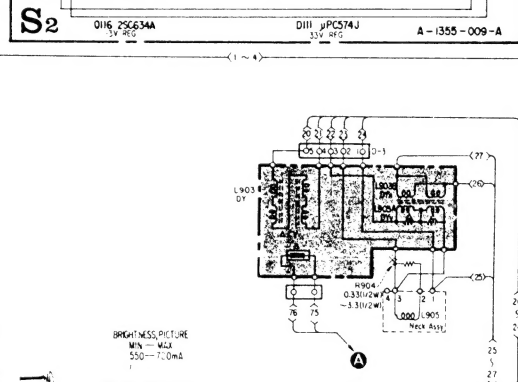
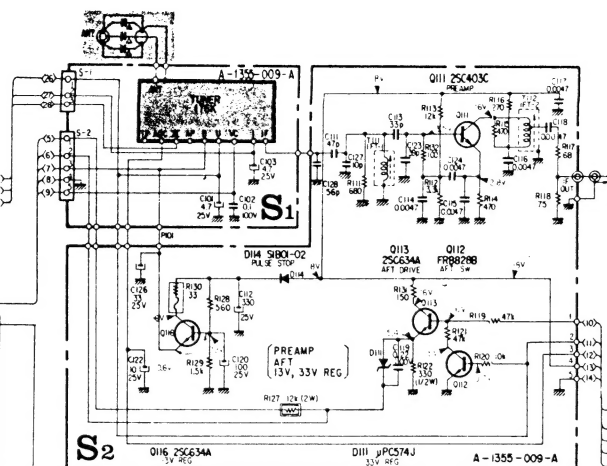
Chassis No. SCC-135A-A

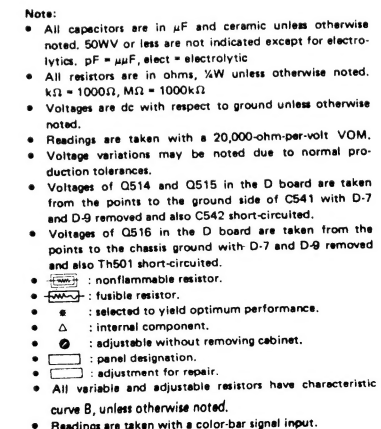


SPECIFICATIONS

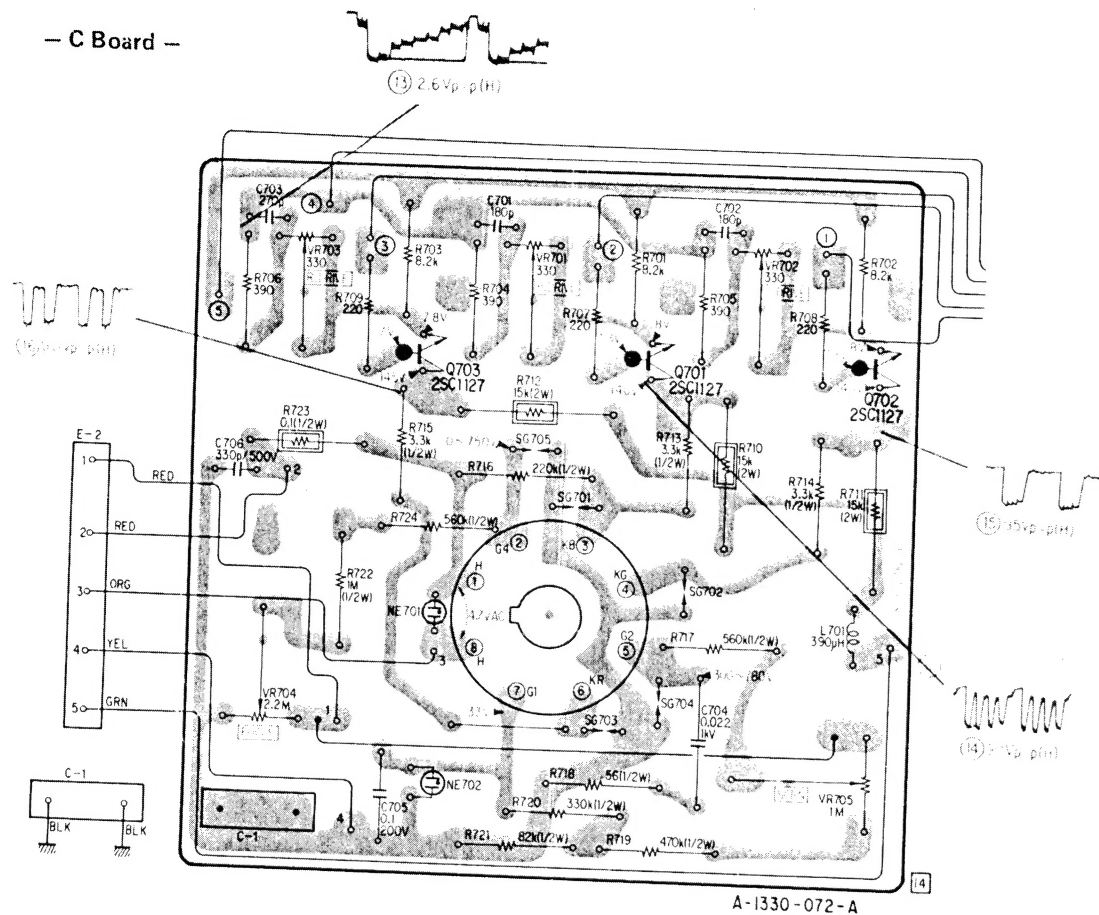
- Television System:** CCIR system B, G and H
- Color System:** PAL
- Picture Tube:** 56cm, 22" (measured diagonally), 114° deflection TRINITRON system
- Semiconductors:** 1 FET, 53 transistors, 70 diodes, 14 ICs and 1 GCS (Gate Controlled Switch)
- Antennas:** VHF/UHF 75Ω unbalanced, Coaxial antenna connection socket is equipped.
- Channel Coverage:** VHF channels: E2-4 (Band I), E5-12 (Band III)
UHF channels: E21-68 (Band U)
- Intermediate**
- Frequencies:** Picture i-f carrier: 38.9MHz
Color subcarrier: 34.47MHz
Sound i-f carrier: 33.4MHz
- Sound System:** 5.5MHz intercarrier
Output power: 2W (at 10% harmonic distortion)
Speaker: 12cm (4 3/4 inches) dia, 8Ω
- Video System:** RGB cathode drive
- Automatic Controls:** ABL (automatic brightness limiter)
ACC (automatic color control)
ACK (automatic color killer)
ADG (automatic degaussing)
AFC (automatic frequency control)
AFT (automatic fine tuning)
AGC (automatic gain control)
ANC (automatic noise canceller)
AVR (automatic voltage regulator)
APC (automatic phase control)
- Anode Voltage:** 25kV at zero beam current
- Hochspannung:** 25kV bei 0 mA Strahlstrom
- Power Requirements:** 220/240V AC, 50Hz
- Power Consumption:** 128W
- Dimensions:** 669 (w) x 459 (h) x 413 (d) mm
26 3/8 (w) x 18 1/4 (h) x 16 1/4 (d) inches
- Net Weight:** 34kg (74 lb 15 oz)
- Accessories Supplied:** Earphone (ME-20E)
Instruction Manual



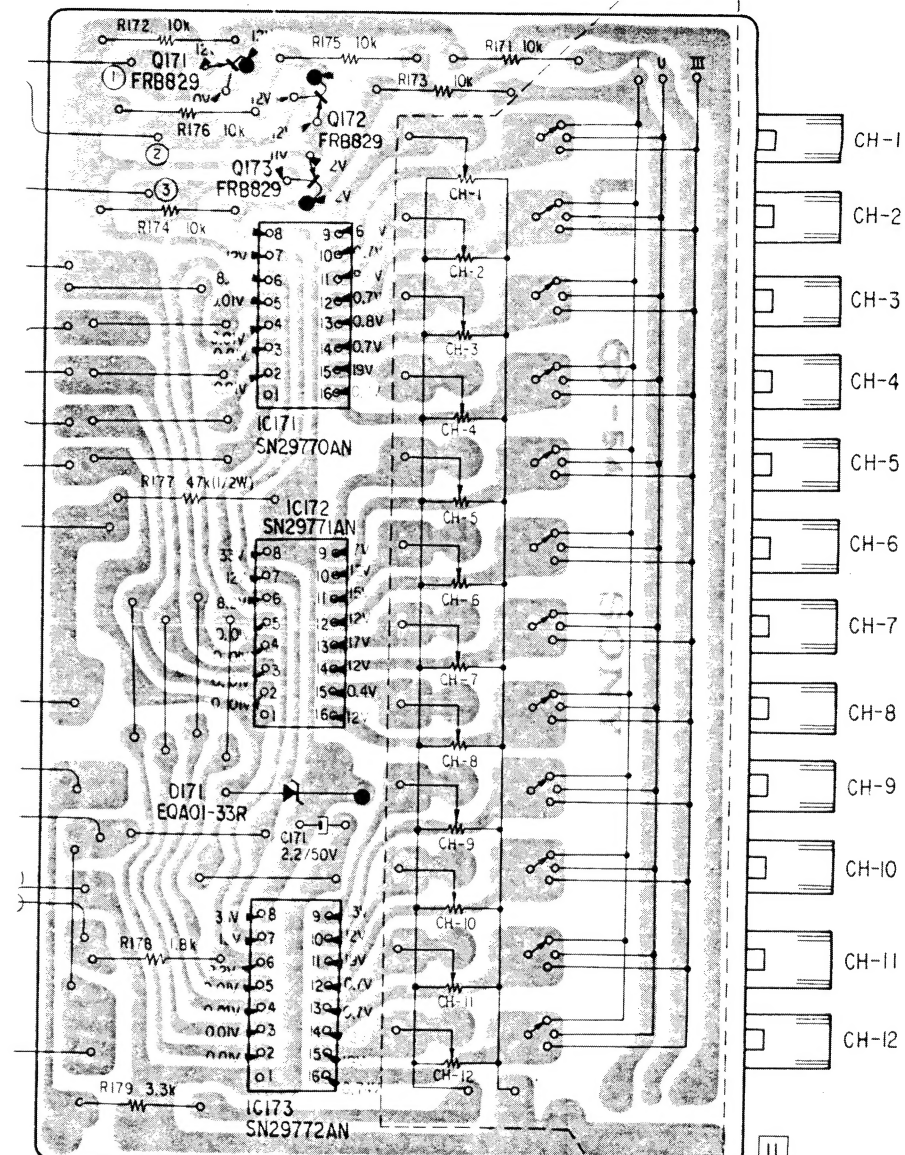
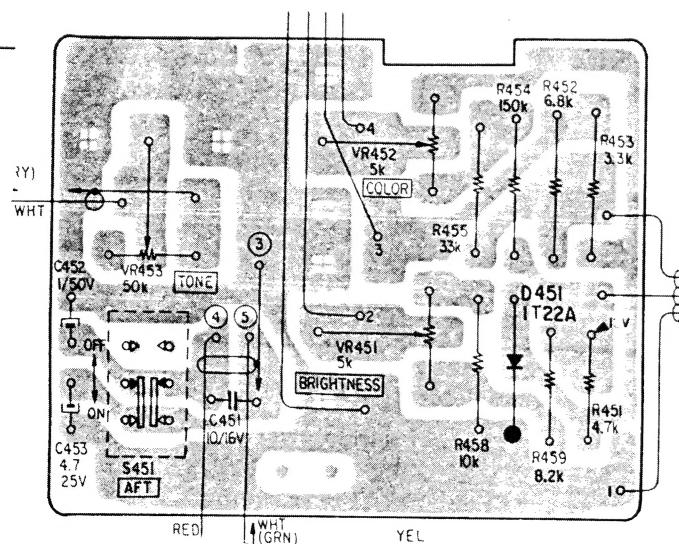




— C Board —

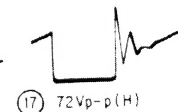
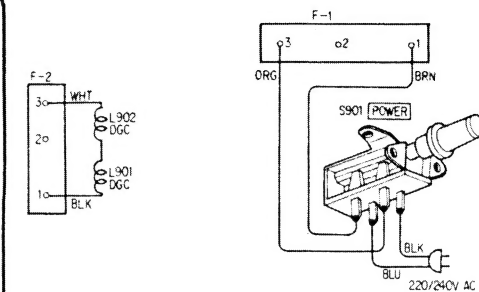
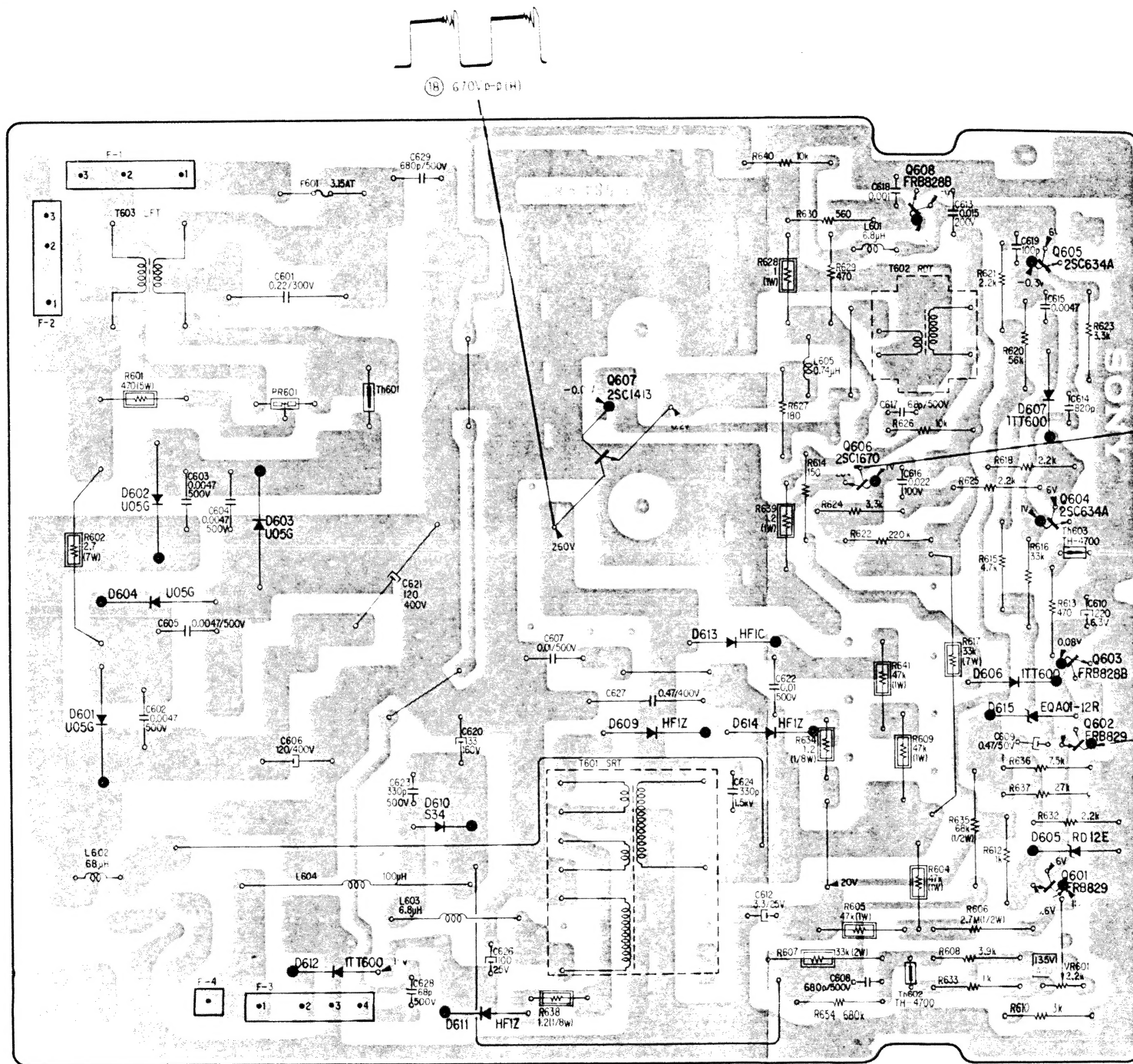


— J Board —

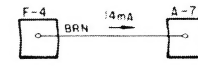
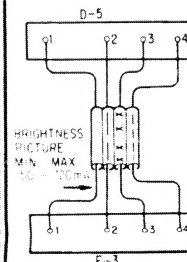


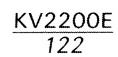
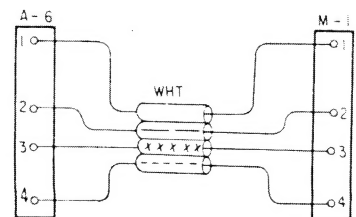
— U Board —

Q	D	ADJ
Q608		
Q605		
	D607	
Q607		
Q606	D602	
Q604	D603	
	D604	
	D613	
Q603	D606	
	D601 D615	
Q602	D609 D614	
	D610	
	D605	
Q601		VR601
	D612	
	D611	



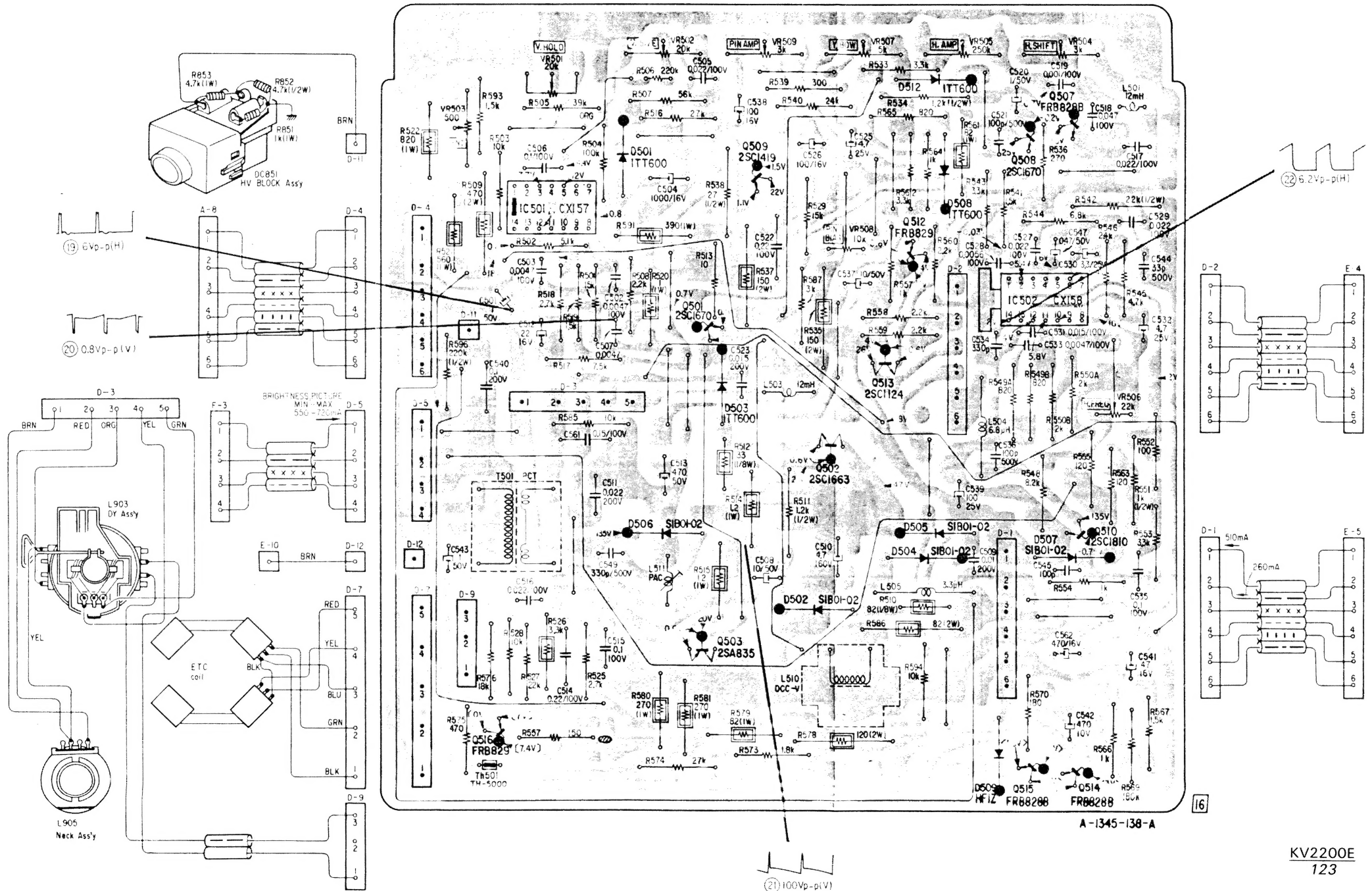
CAUTION
Do not touch the base of
U602 with the probe of VCM





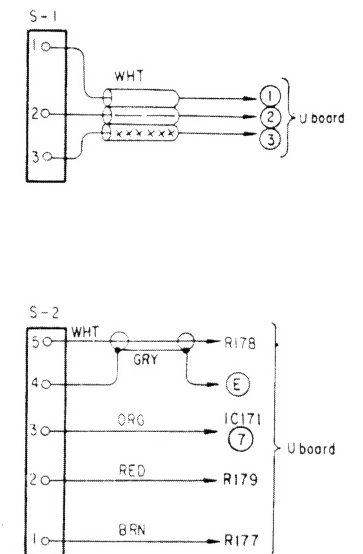
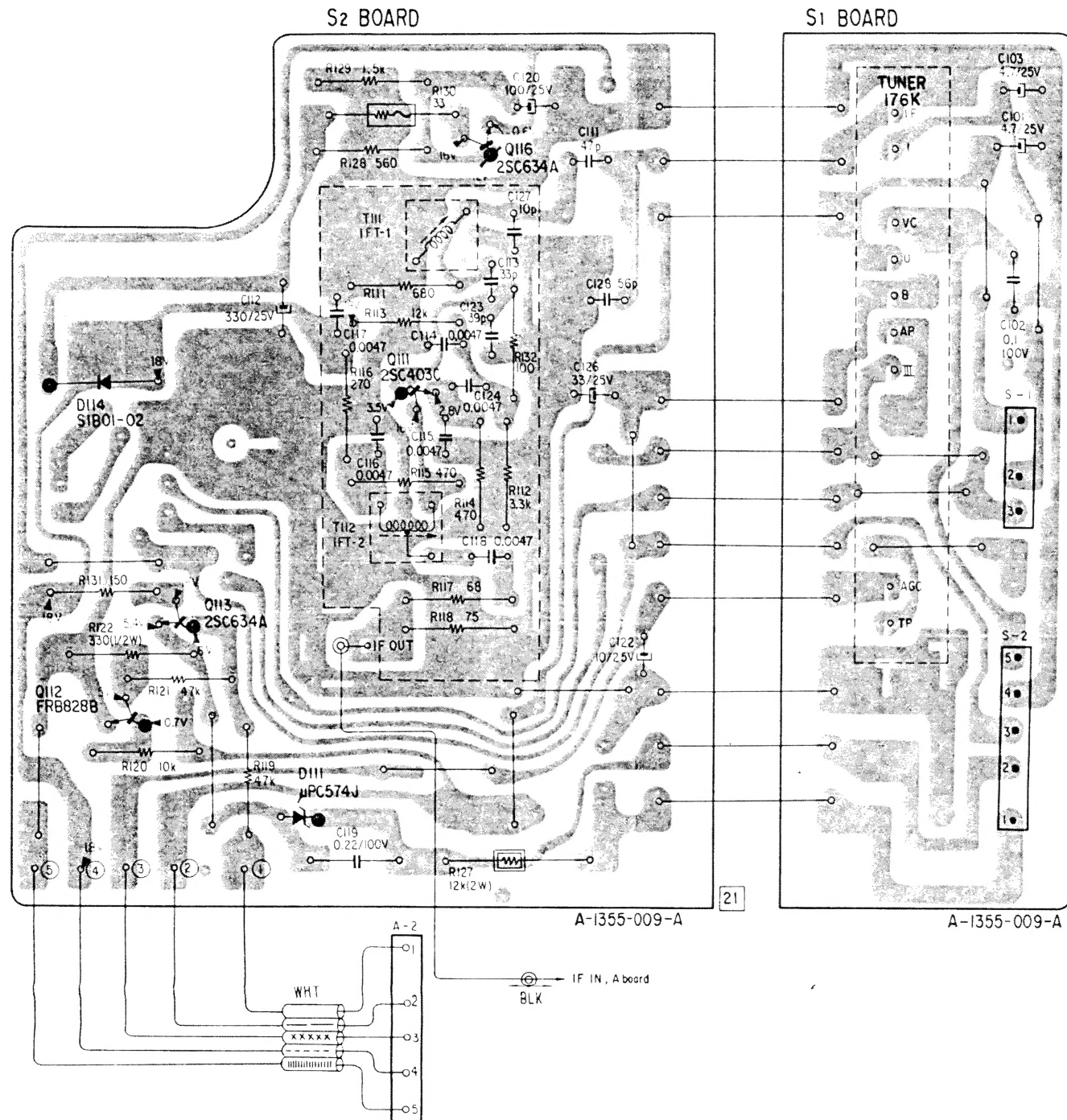
— D Board —

Q	IC501		Q501		Q509		Q512		Q508		Q507	
I C	Q516		Q501		Q503		Q502		Q513		IC502	
D	D501		D506		D503		D502		D512		D508	
A D J	VR503		VR501		VR502		VR509		VR507		VR505	
							VR508				VR504	
											VR506	



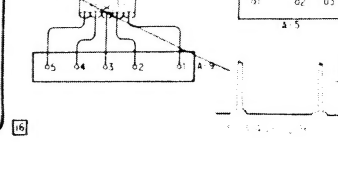
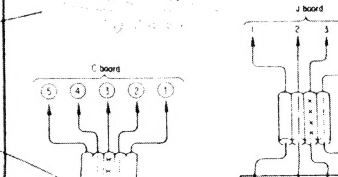
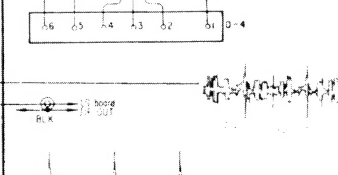
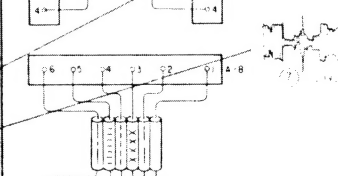
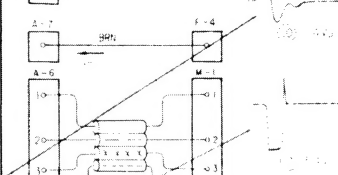
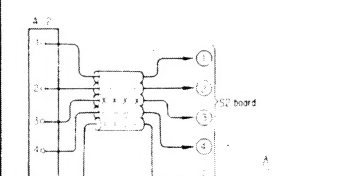
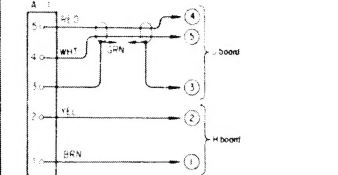
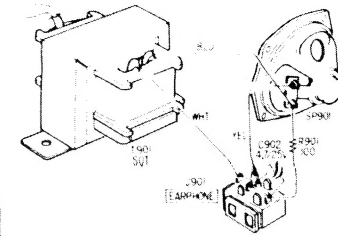
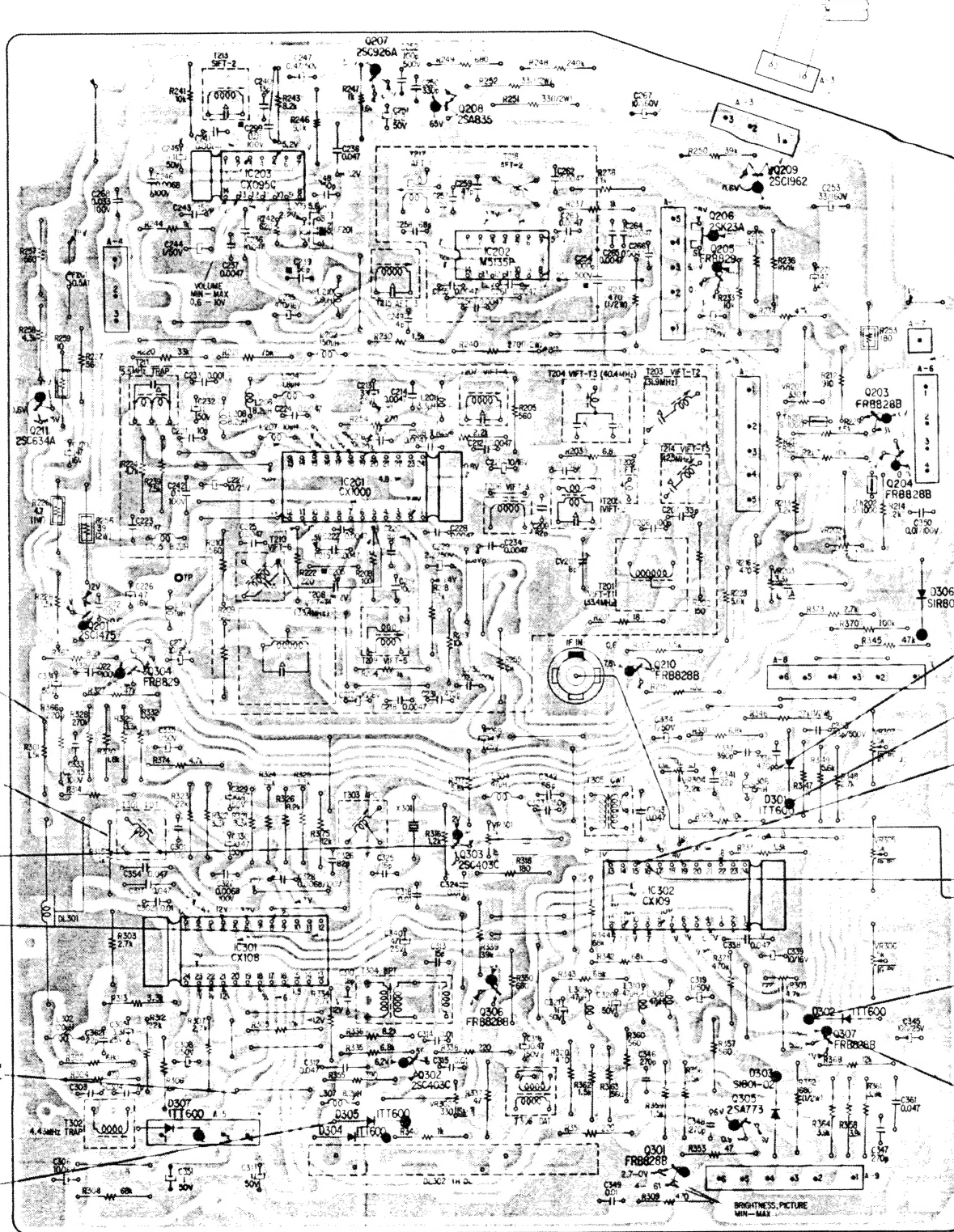
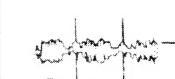
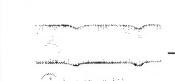
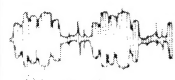
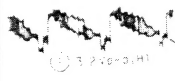
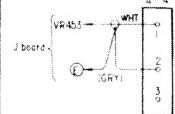
— S₁ & S₂ Boards —

Q	D
Q116	
Q111	D114
Q113	
Q112	D111

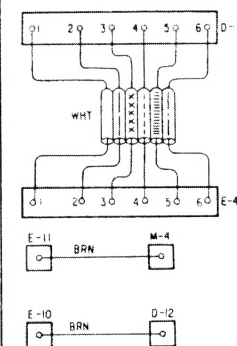
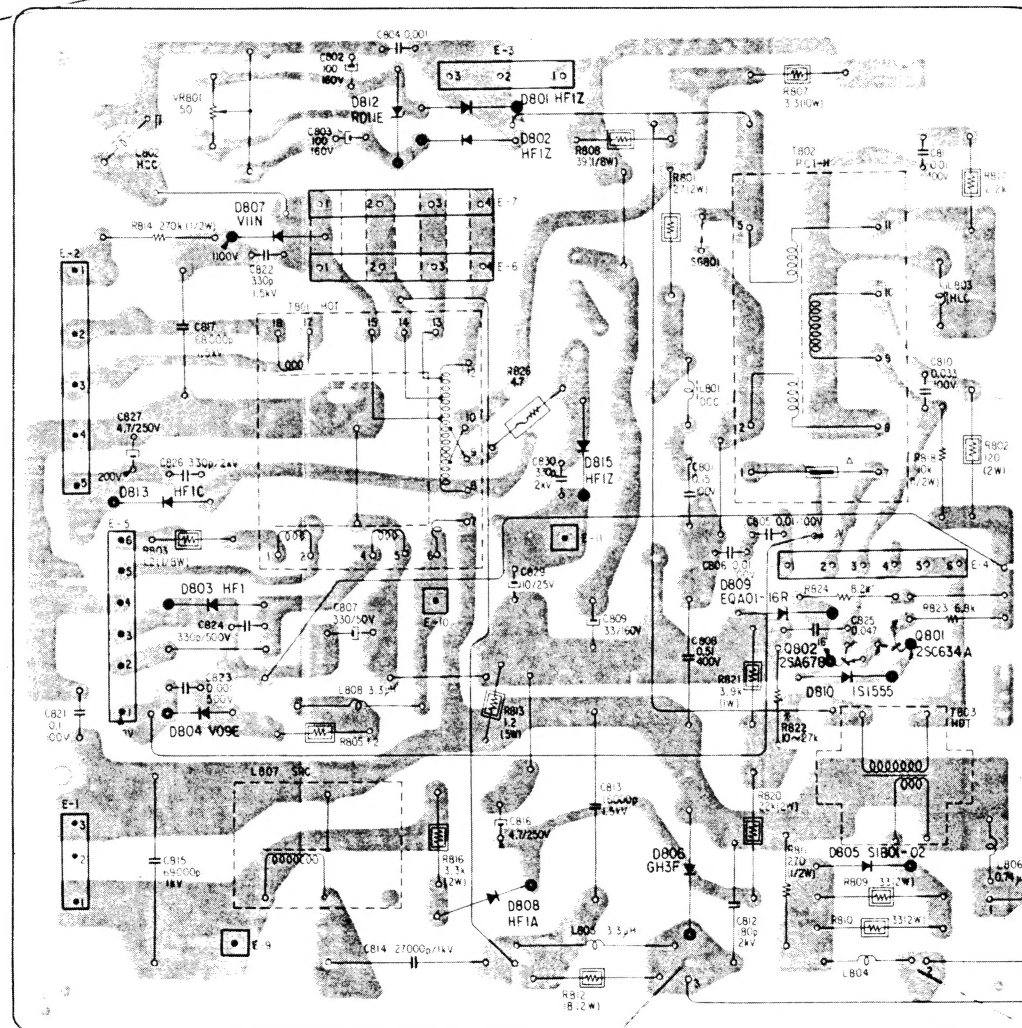
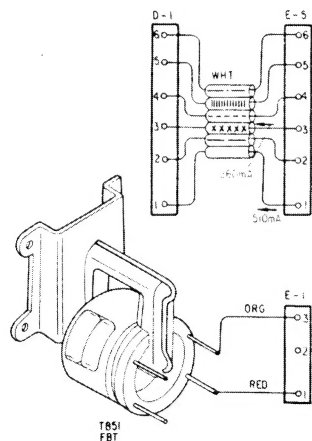
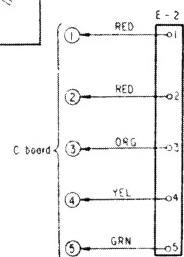
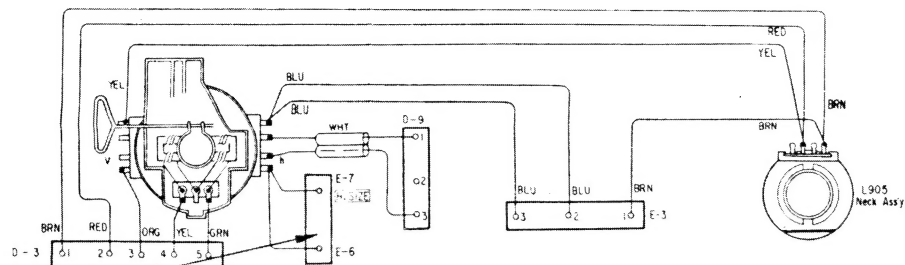


— A Board —

Q, IC	D	ADJ
Q207		
Q208		
Q209		
IC203		
Q206		
IC202		
Q205		
Q211	VR201	
Q203		
Q204		
IC201		
Q201	VR202	
	VR203	
Q210	D306	
Q304		
VR307		
VR304	D301	
VR301		
VR305		
IC302		
IC301	VR306	
Q306	VR303	
Q307	D302	
Q302		
Q303	VR302	
Q307, Q305, Q304		
Q301		



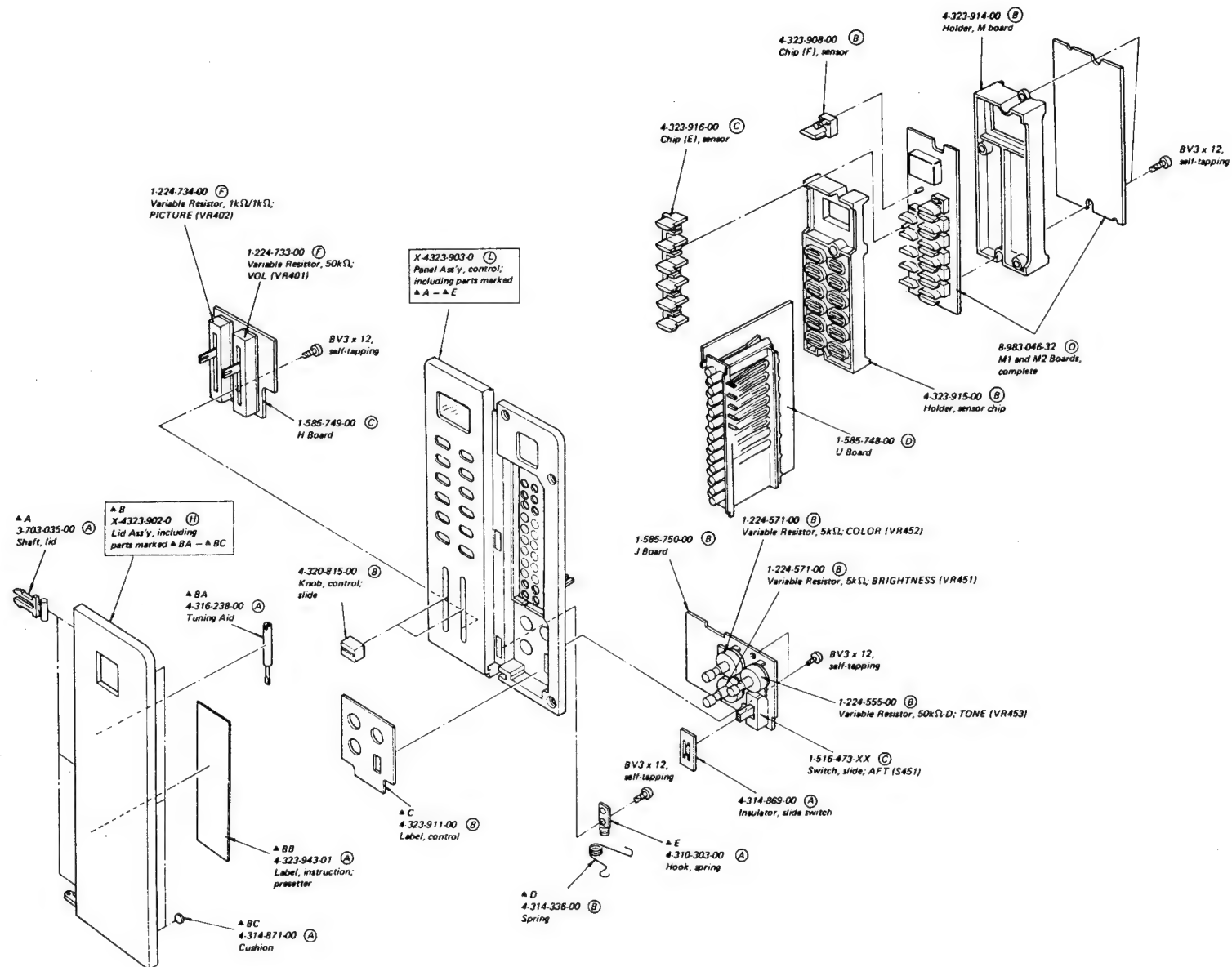
KV2200E
125

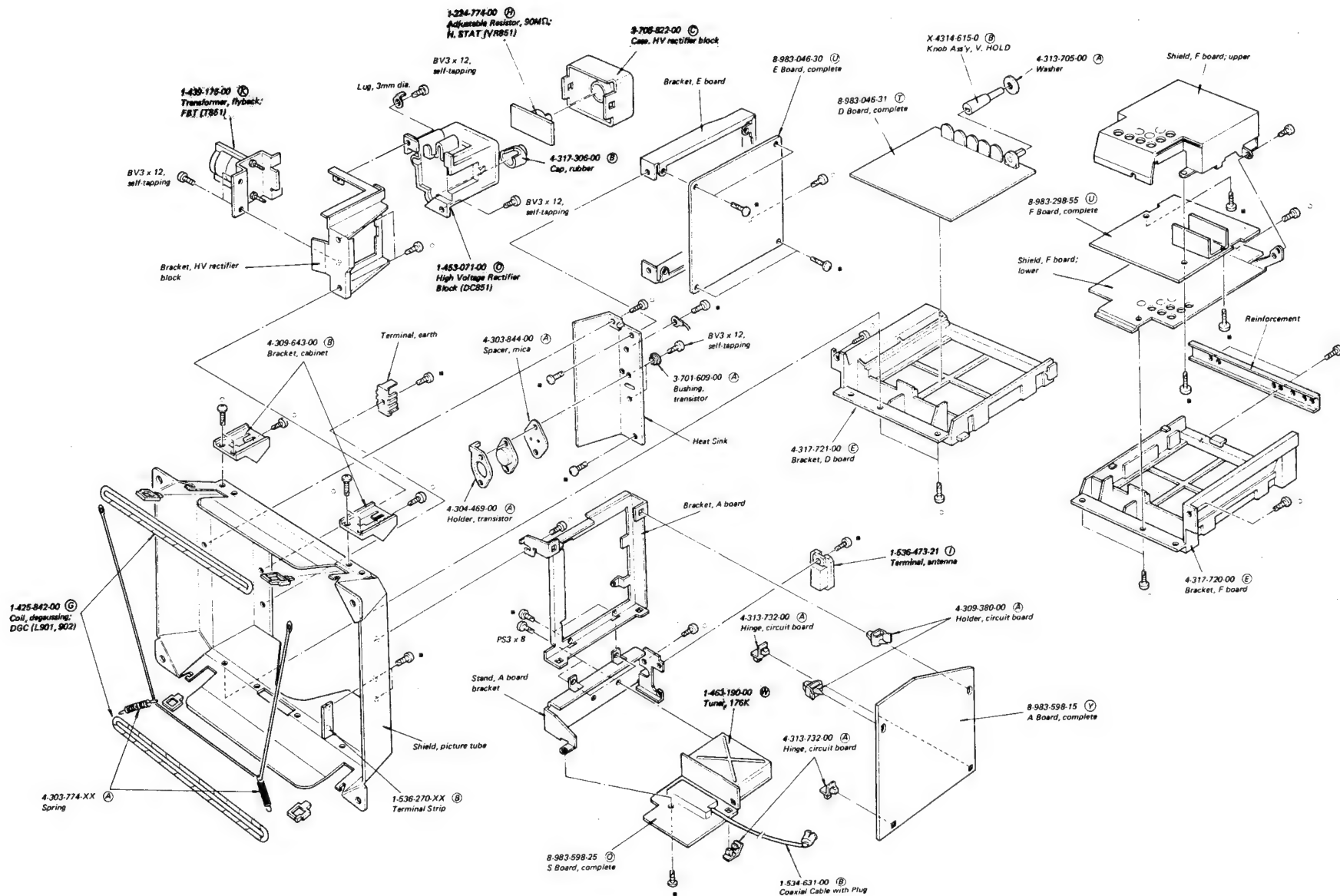


Q	D
	D812,80
	D802
	D807
	D815
	D813
	D803
Q801	D809
Q802	D810
	D804
	D805
	D806
	D808
Q901	

Parts List:

- X-4323-906-3 ① Cabinet Assy, including parts marked - A
- X-4323-907-1 ② Cover Assy, rear, including parts marked A, B
- 4-309-749-00 ③ P4 x 20, self-tapping; with washer
- 4-323-901-00 ④ Label, specification
- A A 4-316-033-00 ④ Anchor, power cord
- BV3 x 12, self-tapping
- A B 4-307-238-00 ④ Clamp, power cord
- 4-309-749-00 ③ P4 x 20, self-tapping; with washer
- A 4-310-333-00 ③ Foot
- Reinforcement, front mask
- 4-309-749-00 ③ P4 x 20, self-tapping; with washer
- 3-703-036-00 ③ Grommet
- 1-526-086-XX ③ Socket, picture tube
- A 4-310-333-00 ③ Foot
- 4-320-823-00 ③ Cover, switch
- 1-516-390-00 ③ Switch, pushbutton; POWER (SS901)
- X-4324-001-0 ③ Pushbutton Assy, POWER switch
- 4-303-822-00 ③ Cushion
- 4-311-141-00 ③ Washer
- Bracket Assy, picture tube
- BV3 x 12, self-tapping
- 1-427-403-00 ③ Transformer, sound output; 20T (T901)
- 1-507-174-51 ③ Jack, EARPHONE (J901)
- 1-502-650-00 ③ Speaker, 811 (SP901)
- 4-307-250-00 ③ Stopper, power cord
- 1-452-094-00 ③ Magnet, rotatable disk; 15mm dia.
- 1-452-032-00 ③ Magnet, disk; 10mm dia.
- X-4309-608-0 ③ Permalloy Assy, convergence compensation
- 3-234-817-00 ③ Cord, power
- B3 x 12, self-tapping
- See Exploded View (2).
- 4-308-878-XX ③ Cushion, picture tube
- A 3-701-912-00 ③ Emblem, SONY
- 4-303-822-00 ③ Cushion
- 4-311-141-00 ③ Washer
- 4-314-384-00 ③ Holder (B), DY
- 1-526-851-51 ③ Cap, anode
- 1-452-099-00 ③ Neck Assy (L905)
- 8-983-298-75 ③ C Board, complete
- 1-452-060-21 ③ Magnet, BMC
- 8-737-822-05 ③ Picture Tube, 570E822 (V901)
- 1-451-135-00 ③ Deflection Yoke, DY (L903)
- 1-452-060-21 ③ Magnet, BMC
- 1-452-094-00 ③ Magnet, rotatable disk; 15mm dia.
- 1-452-032-00 ③ Magnet, disk; 10mm dia.
- X-4309-608-0 ③ Permalloy Assy, convergence compensation
- 3-234-817-00 ③ Cord, power
- 1-502-650-00 ③ Speaker, 811 (SP901)
- 1-507-174-51 ③ Jack, EARPHONE (J901)
- 4-307-250-00 ③ Stopper, power cord
- BV3 x 12, self-tapping
- Bracket Assy, picture tube
- 4-311-141-00 ③ Washer
- 4-303-822-00 ③ Cushion
- X-4324-001-0 ③ Pushbutton Assy, POWER switch
- 1-516-390-00 ③ Switch, pushbutton; POWER (SS901)
- 4-320-823-00 ③ Cover, switch
- A 4-310-333-00 ③ Foot
- 1-526-086-XX ③ Socket, picture tube
- Reinforcement, front mask
- 4-309-749-00 ③ P4 x 20, self-tapping; with washer
- A 4-310-333-00 ③ Foot
- 4-309-749-00 ③ P4 x 20, self-tapping; with washer
- A B 4-307-238-00 ④ Clamp, power cord
- A A 4-316-033-00 ④ Anchor, power cord
- 4-323-901-00 ④ Label, specification
- 4-309-749-00 ③ P4 x 20, self-tapping; with washer
- X-4323-907-1 ② Cover Assy, rear, including parts marked A, B
- X-4323-906-3 ① Cabinet Assy, including parts marked - A





ELECTRICAL PARTS LIST

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
TUNER AND CIRCUIT BOARDS		
1-463-190-00	(W)	Tuner, 176K
1-585-748-00	(D)	U Board
1-585-749-00	(C)	H Board
1-585-750-00	(B)	J Board
8-983-046-30	(U)	E Board, complete
8-983-046-31	(T)	D Board, complete
8-983-046-32	(Q)	M1 and M2 Boards, complete
8-983-298-55	(U)	F Board, complete
8-983-298-75	(O)	C Board, complete
8-983-598-15	(Y)	A Board, complete
8-983-598-25	(S)	S Board, complete
SEMICONDUCTORS		
Transistors		
Q111	(B)	2SC403C
⇒ Q112	(B)	2SC634A
Q113, 116	(B)	2SC634A
⇒ Q171-173	(C)	2SA677
Q201	(C)	2SC1475
⇒ Q203, 204	(B)	2SC634A
⇒ Q205	(C)	2SA677
Q206	(C)	2SK23A
Q207	(C)	2SC926A
Q208	(E)	2SA835
Q209	(E)	2SC1962
⇒ Q210	(B)	2SC634A
Q211	(B)	2SC634A
⇒ Q301	(B)	2SC634A
Q302, 303	(B)	2SC403C
⇒ Q304	(C)	2SA677
Q305	(C)	2SA773
⇒ Q306, 307	(B)	2SC634A
Q501	(C)	2SC1670
Q502	(D)	2SC1663
Q503	(E)	2SA835
⇒ Q507	(B)	2SC634A
Q508	(C)	2SC1670

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
Q509	(D)	2SC1419
Q510	(E)	2SC1810
⇒ Q512	(C)	2SA677
Q513	(C)	2SC1124
⇒ Q514, 515	(B)	2SC634A
⇒ Q516	(C)	2SA677
⇒ Q601, 602	(C)	2SA677
⇒ Q603	(B)	2SC634A
Q604, 605	(C)	2SC1670
Q606	(C)	2SC1670
Q607	(K)	2SC1413
⇒ Q608	(B)	2SC634A
Q701-703	(D)	2SC1127
Q801	(B)	2SC634A
Q802	(C)	2SA678
Q901	(K)	SG613
Diodes		
D111	(E)	μPC574J
D114	(B)	SIB01-02
D171	(B)	EQA01-33R
⇒ D301, 302	(B)	1S1555
D303	(B)	SIB01-02
⇒ D304, 305	(B)	1S1555
D306	(B)	S1R80
⇒ D307	(B)	1S1555
⇒ D401	(B)	1S1555
D451	(B)	1T22A
⇒ D501	(B)	1S1555
D502	(B)	SIB01-02
⇒ D503	(B)	1S1555
D504-507	(B)	SIB01-02
⇒ D508	(B)	1S1555
D509	(B)	HF1Z
⇒ D512	(B)	1S1555

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
D601-604	(C)	U05G
D605	(B)	RD12E
⇒ D606, 607	(B)	1S1555
D609	(B)	HF1Z
D610	(C)	S34
D611	(B)	HF1Z
⇒ D612	(B)	1S1555
D613	(B)	HF1C
D614	(B)	HF1Z
D615	(C)	EQA01-12R
D801, 802	(B)	HF1Z
D803	(B)	HF1
D804	(B)	V09E
D805	(B)	SIB01-02
D806	(D)	GH3F
D807	(C)	V11N
D808	(B)	HF1A
D809	(B)	EQA01-16R
D810	(B)	1S1555
D812	(B)	RD11E
D813	(B)	HF1C
D815	(B)	HF1Z
LED001		TLR320
ICs		
IC151, 152		SN29791N
IC153		SN29764AN
IC154		TP4042AN
IC171		SN29770AN
IC172		SN29771AN
IC173		SN29772AN
IC201	(H)	CX100D
IC202	(H)	M5135P
IC203	(F)	CX095C
IC301	(K)	CX108
IC302	(K)	CX109
IC501	(F)	CX157
IC502	(F)	CX158

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
Miscellaneous		
PR601	1-800-362-00	(E) Thermistor, positive
⇒ Th201,202	1-800-198-XX	(A) Thermistor, S-1250
⇒ Th501	1-800-070-XX	(A) Thermistor, TH-4700
Th601	1-800-356-00	(E) Thermistor
Th602,603	1-800-070-XX	(A) Thermistor, TH-4700
COILS		
All coils are microinductors unless otherwise noted.		
L101	1-407-159-XX	(A) 15μH
L102	1-407-165-XX	(A) 47μH
L201	1-407-184-XX	(A) 3.3μH
L202	1-407-171-XX	(A) 150μH
L204	1-407-684-00	(A) 1.8μH
L205, 206	1-407-189-XX	(A) 8.2μH
L207	1-407-157-XX	(A) 10μH
L208	1-407-189-XX	(A) 8.2μH
L209, 210	1-407-187-XX	(A) 5.6μH
L301	1-407-178-XX	(A) 1μH
L302	1-407-706-00	(A) 120μH
L304	1-407-165-XX	(A) 47μH
L306	1-407-208-XX	(B) 15mH
L307	1-407-189-XX	(A) 8.2μH
L308-310	1-407-165-XX	(A) 47μH
L501	1-407-207-XX	(B) 12mH
L503	1-459-059-00	(B) 12mH
L504	1-407-556-00	(B) 6.8μH, spook choke
L505	1-407-364-00	(B) 3.3μH, spook choke
L510	1-443-012-00	(B) Dynamic Convergence Choke, DCC
L511	1-435-055-00	(D) PAC
L601	1-407-188-XX	(A) 6.8μH
L602	1-421-249-00	(C) 68μH, spook choke
L603	1-407-556-00	(B) 6.8μH, spook choke
L604	1-407-720-00	(B) 100μH, spook choke

Ref. No.	Part No.	Description
L605	1-407-365-00	(A) 0.74 μ H, spook choke
L701	1-407-712-00	(A) 390 μ H
L801	1-459-075-00	(B) Dynamic Convergence Choke, DCC
L802	1-459-148-00	(C) Horizontal Centering Choke, HCC
L803	1-459-147-00	(E) Horizontal Linearity, HLC
L804	1-407-364-00	(B) Spook Choke
L805	1-407-780-00	(B) 3.3 μ H, spook choke
L806	1-407-365-00	(A) 0.74 μ H, spook choke
L807	1-413-027-00	(F) Sine Resonance, SRC
L808	1-407-364-00	(B) 3.3 μ H, spook choke
L901, 902	1-425-842-00	(G) Degaussing, DGC
L903	1-451-135-00	(P) Deflection Yoke, DY
L905	1-452-099-00	(H) Neck Ass'y
DL301	1-415-101-00	(D) Delay Line
DL302	1-415-075-00	(K) 1H Delay Line

TRANSFORMERS AND FILTER

CF201	1-527-263-00	(B) Ceramic Filter
T111	1-403-927-00	(B) IFT-1
T112	1-403-907-00	(B) IFT-2
T201	1-409-225-00	(B) VIFT-T1, 33.4MHz
T202	1-425-613-00	(B) VIFT-1
T203	1-409-270-00	(B) VIFT-T2, 31.9MHz
T204	1-409-214-00	(B) VIFT-T3, 40.4MHz
T205	1-403-947-00	(B) VIFT-2
T206	1-404-047-00	(B) VIFT-3
T207	1-404-046-00	(B) VIFT-4
T208	1-409-294-00	(C) VIFT-T4, 33.4MHz
T209	1-404-044-00	(B) VIFT-5
T210	1-404-045-00	(B) VIFT-6
T211	1-409-235-00	(B) 5.5MHz Trap
T213	1-403-843-00	(B) SIFT-2
T214	1-409-269-00	(B) VIFT-T5, 42.5MHz
T215	1-404-048-00	(B) AFT-3
T217	1-403-810-00	(B) AFT-1
T218	1-403-811-00	(B) AFT-2

Ref. No.	Part No.	Description
T301	1-425-784-00	(B) Take-off, TOT
T302	1-409-193-00	(B) 4.43MHz Trap
T303	1-405-733-00	(B) Automatic Phase Control, APC
T304	1-425-927-00	(C) Bandpass, BPT
T305	1-425-928-00	(B) Continuous-wave, CWT
T306	1-425-928-00	(B) Delay Adjustment, DAT
T501	1-421-245-00	(F) Pincushion Correction, PCT
T601	1-413-028-00	(K) Switching Regulator, SRT
T602	1-437-066-00	(C) Regulator Drive, RDT
T603	1-441-855-00	(C) Line Filter, LFT
T801	1-439-201-00	(J) Horizontal Output, HOT
T802	1-421-320-00	(J) Pincushion Correction, H-PCT
T803	1-437-065-00	(C) Horizontal Drive, HDT
T851	1-439-175-00	(K) Flyback, FBT
T901	1-427-402-00	(F) Sound Output, SOT

CAPACITORS

All capacitors are in μ F and ceramic unless otherwise noted.
50WV or less are not indicated except for electrolytics.
pF = μ F, elect = electrolytic

C101	1-121-395-11	(A) 4.7	25V	elect
C102	1-108-638-11	(B) 0.1	100V	mylar
C103	1-121-395-11	(A) 4.7	25V	elect
C111	1-102-887-11	(A) 47p		
C112	1-121-654-11	(B) 330	25V	elect
C113	1-102-884-11	(A) 33p		
C114-118	1-102-125-11	(A) 0.0047		
C119	1-108-642-11	(B) 0.22	100V	mylar
C120	1-121-416-11	(B) 100	25V	elect
C122	1-121-398-11	(A) 10	25V	elect
C123	1-102-889-11	(A) 39p		
C124	1-102-125-11	(A) 0.0047		
C126	1-121-404-11	(A) 33	25V	elect
C127	1-102-858-11	(A) 10p		
C128	1-101-884-11	(A) 56p		
C151-162	1-102-102-11	(A) 0.0047		
C164-167	1-101-004-11	(A) 0.01		

Ref. No.	Part No.	Description
C168	1-121-398-11	(A) 10 25V elect
C169	1-121-990-11	(A) 22 16V elect
C170	1-121-352-11	(A) 47 10V elect
C171	1-121-450-11	(A) 2.2 50V elect
C205	1-102-936-11	(A) 3p
C206	1-102-529-11	(A) 100p
C207	1-102-884-11	(A) 33p
C208	1-102-125-11	(A) 0.0047
C209, 210	1-102-527-11	(A) 82p
C211	1-121-651-11	(A) 10 16V elect
C212	1-102-125-11	(A) 0.0047
C213	1-121-404-11	(A) 33 25V elect
C214, 215	1-102-125-11	(A) 0.0047
C216	1-102-973-11	(A) 100p
C217	1-121-651-11	(A) 10 16V elect
C218	1-102-125-11	(A) 0.0047
C219	1-102-973-11	(A) 100p
C220	1-102-663-11	(A) 8p
C221	1-102-858-11	(A) 10p
C222-225	1-102-125-11	(A) 0.0047
C226	1-121-409-11	(A) 47 16V elect
C227	1-121-398-11	(A) 10 25V elect
C228	1-102-125-11	(A) 0.0047
C229	1-121-450-11	(A) 2.2 50V elect
C230	1-108-630-11	(A) 0.022 100V mylar
C231	1-102-114-11	(A) 470p
C232	1-121-391-11	(A) 1 50V elect
C233	1-102-074-11	(A) 0.001
C234	1-102-125-11	(A) 0.0047
C235	1-121-426-11	(B) 470 16V elect
C236	1-101-006-11	(A) 0.047
C237	1-102-125-11	(A) 0.0047
C238	1-101-006-11	(A) 0.047
C239	1-101-884-11	(A) 56p
C240	1-102-667-11	(A) 13p
C241	1-102-074-11	(A) 0.001
C242	1-108-638-11	(B) 0.1 100V mylar
C243	1-101-361-11	(A) 150p
C244, 245	1-121-391-11	(A) 1 50V elect

Ref. No.	Part No.	Description
C246	1-108-624-11	(A) 0.0068 100V mylar
C247	1-121-726-11	(A) 0.47 50V elect
C248	1-101-361-11	(A) 150p
C249	1-102-882-11	(A) 4p
C250	1-102-112-11	(A) 330p
C251	1-121-450-11	(A) 2.2 50V elect
C252	1-101-810-11	(A) 100p 500V
C253	1-121-757-11	(B) 33 160V elect
C254	1-102-043-11	(A) 1000p 500V feedthrough
C255, 256	1-102-125-11	(A) 0.0047
C257	1-101-576-11	(A) 1.5p
C258	1-102-525-11	(A) 68p
C259	1-102-774-11	(A) 47p
C260	1-121-391-11	(A) 1 50V elect
C261-266	1-102-125-11	(A) 0.0047
C267	1-121-999-11	(B) 10 160V elect
C268	1-108-682-11	(A) 0.033 100V mylar
C269	1-121-395-11	(A) 4.7 25V elect
C270	1-121-409-11	(A) 47 16V elect
C271	1-121-410-11	(B) 47 25V elect
C272	1-101-004-11	(A) 0.01
C273	1-121-398-11	(A) 10 25V elect
C299	1-108-626-11	(A) 0.01 100V mylar
C301	1-102-889-11	(A) 39p
C302	1-101-004-11	(A) 0.01
C303, 304	1-102-662-11	(A) 7p
C305	1-121-392-11	(A) 3.3 25V elect
C306	1-121-651-11	(A) 10 16V elect
C308	1-121-391-11	(A) 1 50V elect
C310	1-102-670-11	(A) 18p
C311	1-121-391-11	(A) 1 50V elect
C312	1-101-006-11	(A) 0.047
C313	1-102-668-11	(A) 15p
C314, 315	1-101-004-11	(A) 0.01
C316	1-121-726-11	(A) 0.47 50V elect
C317	1-101-006-11	(A) 0.047
C318	1-101-004-11	(A) 0.01
C319-321	1-121-391-11	(A) 1 50V elect
C323	1-101-361-11	(A) 150p

Ref. No.	Part No.	Description			
C324	1-101-004-11	(A) 0.01			
C325	1-102-512-11	(A) 16p			
C326	1-102-700-11	(A) 82p			
C327, 328	1-108-624-11	(A) 0.0068	100V	mylar	
C329, 330	1-121-726-11	(A) 0.47	50V	elect	
C331	1-121-391-11	(A) 1	50V	elect	
C332	1-108-630-11	(A) 0.022	100V	mylar	
C333	1-108-616-11	(A) 0.0015	100V	mylar	
C334, 335	1-121-391-11	(A) 1	50V	elect	
C336	1-102-824-11	(A) 470p			
C337	1-102-822-11	(A) 390p			
C338	1-101-006-11	(A) 0.047			
C339	1-121-651-11	(A) 10	16V	elect	
C340	1-121-410-11	(B) 47	25V	elect	
C341	1-102-892-11	(A) 22p			
C342	1-102-676-11	(A) 68p			
C343	1-101-006-11	(A) 0.047			
C345	1-121-416-11	(B) 100	25V	elect	
C346-348	1-102-980-11	(A) 270p			
C349	1-101-004-11	(A) 0.01			
C350	1-108-626-11	(A) 0.01	100V	mylar	
C351	1-121-391-11	(A) 1	50V	elect	
C353	1-102-233-11	(A) 33p	500V		
C354, 361	1-101-006-11	(A) 0.047			
C362	1-102-959-11	(A) 22p			
C451	1-121-806-11	(B) 10	16V	elect (nonpolarized)	
C452	1-121-391-11	(A) 1	50V	elect	
C453	1-121-395-11	(A) 4.7	25V	elect	
C501	1-121-391-11	(A) 1	50V	elect	
C502, 503	1-108-622-11	(A) 0.0047	100V	mylar	
C504	1-121-245-11	(B) 1000	16V	elect	
C505	1-108-630-11	(A) 0.022	100V	mylar	
C506	1-108-638-11	(B) 0.1	100V	mylar	
C507	1-102-125-11	(A) 0.0047			
C508	1-121-738-11	(A) 10	50V	elect	
C509	1-108-692-11	(A) 0.01	200V	mylar	
C510	1-123-174-11	(C) 4.7	160V	elect	
C511	1-108-696-11	(A) 0.022	200V	mylar	

Ref. No.	Part No.	Description			
C512	1-121-479-11	(A) 22	16V	elect	
C513	1-121-810-11	(C) 470	50V	elect	
C514	1-108-642-11	(B) 0.22	100V	mylar	
C515	1-108-638-11	(B) 0.1	100V	mylar	
C516, 517	1-108-630-11	(A) 0.022	100V	mylar	
C518	1-108-634-11	(A) 0.047	100V	mylar	
C519	1-108-614-11	(A) 0.001	100V	mylar	
C520	1-121-391-11	(A) 1	50V	elect	
C521	1-101-810-11	(A) 100p	500V		
C522	1-108-642-11	(B) 0.22	100V	mylar	
C523	1-106-371-51	(B) 0.015	200V	mylar	
C525	1-121-961-11	(A) 4.7	25V	elect	
C526	1-121-971-11	(B) 100	16V	elect	
C527	1-108-630-11	(A) 0.022	100V	mylar	
C528	1-108-623-11	(A) 0.0056	100V	mylar	
C529	1-108-630-11	(A) 0.022	100V	mylar	
C530	1-121-392-11	(A) 3.3	25V	elect	
C531	1-129-927-11	(B) 0.015	100V	polyethylene	
C532	1-121-395-11	(A) 4.7	25V	elect	
C533	1-106-188-51	(A) 0.0047	100V	mylar	
C534	1-102-832-11	(A) 330p			
C535	1-108-638-11	(B) 0.1	100V	mylar	
C536	1-101-810-11	(A) 100p	500V		
C537	1-121-955-11	(B) 10	50V	elect	
C538	1-121-971-11	(B) 100	16V	elect	
C539	1-121-416-11	(B) 100	25V	elect	
C540	1-108-704-11	(B) 0.1	200V	mylar	
C541	1-121-409-11	(A) 47	16V	elect	
C542	1-121-425-11	(B) 470	10V	elect	
C543	1-121-391-11	(A) 1	50V	elect	
C544	1-102-233-11	(A) 33p	500V		
C545	1-102-975-11	(A) 100p			
C547	1-121-726-11	(A) 0.47	50V	elect	
C549	1-102-030-11	(A) 330p	500V		
C561	1-108-640-11	(B) 0.15	100V	mylar	
C562	1-121-426-11	(B) 470	16V	elect	
C601	1-108-745-62	(E) 0.22	300V	mylar	
C602-605	1-102-085-11	(A) 0.0047	500V		
C606	1-123-128-11	(F) 120	400V	elect	

Ref. No.	Part No.	Description			
C607	1-102-050-11	(A) 0.01	500V		
C608	1-102-002-11	(A) 680p	500V		
C609	1-121-726-11	(A) 0.47	50V	elect	
C610	1-121-419-11	(B) 220	6.3V	elect	
C612	1-121-392-11	(A) 3.3	25V	elect	
C613	1-108-694-11	(A) 0.015	200V	mylar	
C614	1-130-017-11	(A) 820p		polyethylene	
C615	1-130-026-11	(B) 0.0047		polyethylene	
C616	1-108-630-11	(A) 0.022	100V	mylar	
C617	1-102-989-11	(A) 68p	500V		
C618	1-101-001-11	(A) 0.001			
C619	1-102-106-11	(A) 100p			
C620	1-123-024-11	(B) 33	160V	elect	
C621	1-123-128-11	(F) 120	400V	elect	
C622	1-102-050-11	(A) 0.01	500V		
C623	1-102-030-11	(A) 330p	500V		
C624	1-102-327-11	(B) 330p	1.5kV		
C626	1-121-416-11	(B) 100	25V	elect	
C627	1-130-007-11	(D) 0.47	400V	polyethylene	
C628	1-102-989-11	(A) 68p	500V		
C629	1-102-002-11	(A) 680p	500V		
C701, 702	1-102-976-11	(A) 180p			
C703	1-102-980-11	(A) 270p			
C704	1-129-779-11	(B) 0.022	1kV	polyethylene	
C705	1-108-704-11	(B) 0.1	200V	mylar	
C706	1-102-030-11	(A) 330p	500V		
C801	1-108-640-11	(B) 0.15	100V	mylar	
C802, 803	1-123-173-11	(B) 100	160V	elect	
C804	1-101-455-11	(A) 0.001			
C805, 806	1-108-626-11	(A) 0.01	100V	mylar	
C807	1-121-656-11	(B) 330	50V	elect	
C808	1-130-037-11	(D) 0.51	400V	polyethylene	
C809	1-123-024-11	(B) 33	160V	elect	
C810	1-108-632-11	(A) 0.033	100V	mylar	
C811	1-108-626-11	(A) 0.01	100V	mylar	
C812	1-102-154-11	(A) 180p	2kV		
C813	1-129-924-11	(C) 16000p	1.5kV	polyethylene	
C814	1-130-041-11	(C) 27000p	1kV	polyethylene	
C815	1-130-042-11	(C) 69000p	1kV	polyethylene	

Ref. No.	Part No.	Description			
C816	1-121-759-11	(B) 4.7	250V	elect	
C817	1-129-953-11	(E) 68000p	1.5kV	polyethylene	
C821	1-108-638-11	(B) 0.1	100V	mylar	
C822	1-102-327-11	(B) 330p	1.5kV		
C823	1-102-038-11	(A) 0.001	500V		
C824	1-102-030-11	(A) 330p	500V		
C825	1-101-006-11	(A) 0.047			
C826	1-102-155-11	(A) 330p	2kV		
C827	1-121-759-11	(B) 4.7	250V	elect	
C829	1-121-398-11	(A) 10	25V	elect	
C830	1-102-155-11	(A) 330p	2kV		
C901	1-102-327-11	(B) 330p	1.5kV		
C902	1-119-363-11	(A) 4.7	25V	elect	
CV201	1-141-138-XX	(B) 8p		trimmer	
RESISTORS					
All resistors are in ohms. Common 1/4W carbon resistors are omitted. Check schematic diagram for values. All variable and adjustable resistors have characteristic curve B, unless otherwise noted. k Ω = 1000 Ω , M Ω = 1000k Ω					
R122	1-244-861-11	(A) 330	1/2W	carbon	
R127	1-206-690-11	(A) 12k	2W	metal oxide (nonflammat)	
R130	1-212-869-11	(A) 33		fusible	
R151-163	1-246-546-11	(A) 8.2M	1/2W	carbon	
R177	1-244-913-11	(A) 47k	1/2W	carbon	
R226	1-212-375-11	(A) 18	1W	metal oxide (nonflammat)	
R232	1-244-865-11	(A) 470	1/2W	carbon	
R240	1-244-859-11	(A) 270	1/2W	carbon	
R251, 252	1-244-837-11	(A) 33	1/2W	carbon	
R253	1-211-528-11	(A) 180	1/4W	carbon (nonflammat)	
R256	1-206-477-11	(A) 39	2W	metal oxide	
R259	1-211-498-11	(A) 10	1/4W	carbon (nonflammat)	
R346	1-244-907-11	(A) 27k	1/2W	carbon	
R352	1-244-869-11	(A) 680	1/2W	carbon	

Ref. No.	Part No.	Description			
R371	1-211-686-11	(A) 470k	½W	carbon	
R509	1-206-656-11	(A) 470	2W	metal oxide (nonflammable)	
R510	1-211-929-11	(A) 82	1/8W	carbon (nonflammable)	
R511	1-244-875-11	(A) 1.2k	½W	carbon	
R512	1-211-930-11	(A) 33	1/8W	carbon (nonflammable)	
R514, 515	1-212-361-11	(A) 1.2	1W	metal oxide (nonflammable)	
R520	1-212-360-11	(A) 1	1W	metal oxide (nonflammable)	
R521	1-213-140-11	(A) 560	1W	metal oxide (nonflammable)	
R522	1-213-142-11	(A) 820	1W	metal oxide (nonflammable)	
R534	1-244-875-11	(A) 1.2k	½W	carbon	
R535, 537	1-206-644-11	(A) 150	2W	metal oxide (nonflammable)	
R538	1-244-835-11	(A) 27	½W	carbon	
R542	1-244-905-11	(A) 22k	½W	carbon	
R551	1-244-873-11	(A) 1k	½W	carbon	
R561	1-213-130-11	(A) 82	1W	metal oxide (nonflammable)	
R578	1-206-642-11	(A) 120	2W	metal oxide (nonflammable)	
R579	1-213-130-11	(A) 82	1W	metal oxide (nonflammable)	
R580, 581	1-213-136-11	(A) 270	1W	metal oxide (nonflammable)	
R586	1-206-485-11	(A) 82	2W	metal oxide (nonflammable)	
R591	1-213-138-11	(A) 390	1W	metal oxide (nonflammable)	
R596	1-202-629-11	(A) 220k	½W	composition	
R601	1-217-318-11	(B) 470	5W	wirewound (nonflammable)	
R602	1-217-328-11	(B) 2.7	7W	wirewound (nonflammable)	
R604, 605	1-213-163-11	(A) 47k	1W	metal oxide (nonflammable)	
R606	1-202-655-11	(A) 2.7M	½W	composition	

Ref. No.	Part No.	Description			
R607	1-206-700-11	(A) 33k	2W	metal oxide (nonflammable)	
R609	1-213-163-11	(A) 47k	1W	metal oxide (nonflammable)	
R617	1-206-896-11	(B) 33k	7W	metal oxide (nonflammable)	
R628	1-212-360-11	(A) 1	1W	metal oxide (nonflammable)	
R634	1-210-859-11	(A) 1.2	1/8W	carbon (nonflammable)	
R635	1-244-917-11	(A) 68k	½W	carbon	
R638	1-210-859-11	(A) 1.2	1/8W	carbon (nonflammable)	
R639	1-212-361-11	(A) 1.2	1W	metal oxide (nonflammable)	
R641	1-213-163-11	(A) 47k	1W	metal oxide (nonflammable)	
R710-712	1-206-692-11	(A) 51k	2W	metal oxide (nonflammable)	
R713-715	1-202-585-11	(A) 3.3k	½W	composition	
R716	1-202-629-11	(A) 220k	½W	composition	
R717	1-202-639-11	(A) 560k	½W	composition	
R718	1-202-543-11	(A) 56	½W	composition	
R719	1-202-637-11	(A) 470k	½W	composition	
R720	1-202-633-11	(A) 330k	½W	composition	
R721	1-202-619-11	(A) 82k	½W	composition	
R722	1-202-645-11	(A) 1M	½W	composition	
R723	1-207-451-11	(A) 0.1	½W	wirewound	
R724	1-202-639-11	(A) 560k	½W	composition	
R801	1-206-473-11	(A) 27	2W	metal oxide (nonflammable)	
R802	1-206-642-11	(A) 120	2W	metal oxide (nonflammable)	
R803	1-213-173-11	(B) 1.2	1/8W	metal oxide (nonflammable)	
R805	1-210-860-11	(A) 1.2	½W	carbon (nonflammable)	
R807	1-205-532-11	(B) 3.3	10W	cement coated (nonflammable)	

PACKING MATERIALS AND ACCESSORIES

1-504-034-72	(B) Earphone, ME-20E
3-701-352-00	(A) Bag, polyethylene
4-319-328-00	(A) Tuning Aid
4-323-926-00	(C) Cushion, right; upper
4-323-927-00	(C) Cushion, left; upper
4-323-928-00	(C) Cushion, right; lower
4-323-929-00	(C) Cushion, left; lower
4-323-939-00	(A) Spacer
4-323-940-00	(C) Sheet, protection
4-323-941-00	Carton

4-495-611-11 (E) Manual, instruction

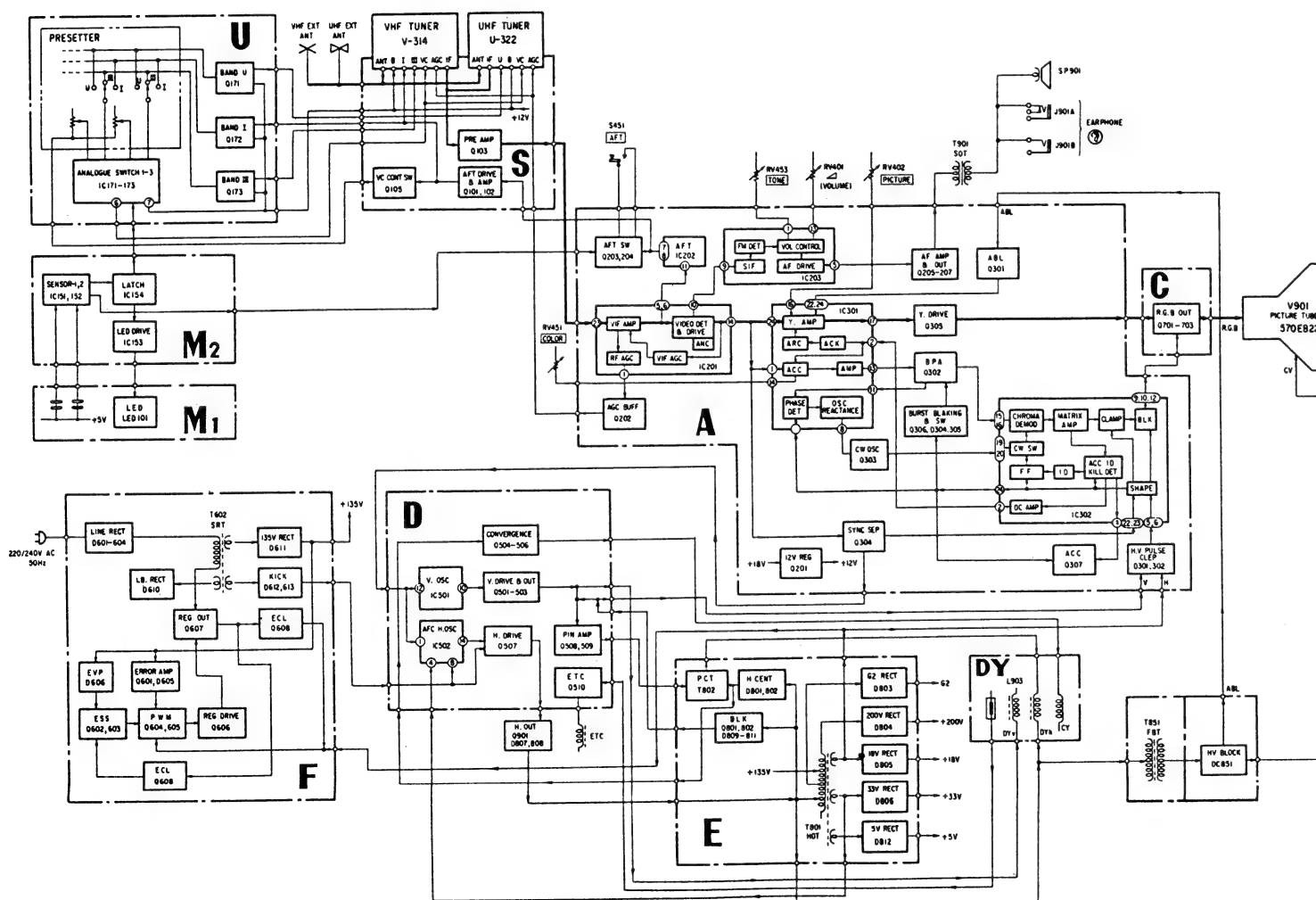
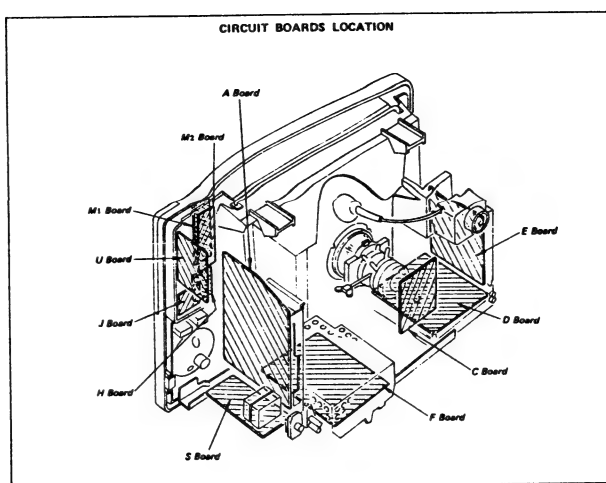
Ref. No.	Part No.	Description			
R808	1-211-421-11	(A) 39	1/8W	carbon (nonflammable)	
R809, 810	1-206-475-11	(A) 33	2W	metal oxide (nonflammable)	
R811	1-244-859-11	(A) 270	½W	carbon	
R812	1-206-469-11	(A) 18	2W	metal oxide (nonflammable)	
R813	1-217-287-11	(B) 1.2	5W	wirewound (nonflammable)	
R814	1-202-631-11	(A) 270k	½W	composition	
R816	1-206-676-11	(A) 3.3k	2W	metal oxide (nonflammable)	
R817	1-211-945-11	(A) 2.2k	½W	carbon (nonflammable)	
R818	1-244-897-11	(A) 10k	½W	carbon	
R820	1-206-696-11	(A) 22k	2W	metal oxide (nonflammable)	
R821	1-213-150-11	(A) 3.9k	1W	metal oxide (nonflammable)	
R826	1-212-849-11	(A) 4.7		fusible	
R851	1-202-776-11	(A) 1k	1W	composition	
R852	1-202-589-11	(A) 4.7k	½W	composition	
R853	1-202-784-11	(A) 4.7k	1W	composition	
R901	1-202-549-11	(B) 100	½W	composition	
* R904	1-207-457-11	(A) 0.33	½W	wirewound	
	1-207-462-11	(A) 0.82			
	1-207-465-11	(A) 1.5			
	1-207-469-11	(A) 3.3			
VR201	1-224-640-XX	(B) 330, adjustable; U. AGC			
VR202	1-224-642-XX	(B) 1k, adjustable; V. AGC			
VR203	1-224-644-XX	(B) 4.7k, adjustable; TU AGC			
VR301	1-224-642-XX	(B) 1k, adjustable; U-V. PHASE			
VR302	1-224-640-XX	(B) 330, adjustable; SMB			
VR303	1-224-644-XX	(B) 4.7k, adjustable; ACC			
VR304	1-224-643-XX	(B) 2.2k, adjustable; U. PHASE			
VR305	1-221-389-XX	(B) 5k, adjustable; B. BKG			
VR306	1-221-389-XX	(B) 5k, adjustable; G. BKG			
VR307	1-221-389-XX	(B) 5k, adjustable; R. BKG			

Ref. No.	Part No.	Description			
VR401	1-224-733-00	(F) 50k, variable; VOL			
VR402	1-224-734-00	(F) 1k/1k, variable; PICTURE			
VR451	1-224-571-00	(B) 5k, variable; BRIGHTNESS			
VR452	1-224-571-00	(B) 5k, variable; COLOR			
VR453	1-224-555-00	(B) 50k, variable; TONE			
VR501	1-224-972-00	(B) 20k, variable; V. HOLD			
VR502	1-222-807-XX	(E) 20k, adjustable; V. SIZE			
VR503	1-221-970-XX	(B) 500, adjustable; V. CENT			
VR504	1-221-390-XX	(B) 3k, adjustable; H. SHIFT			
VR505	1-221-982-XX	(B) 250k, adjustable; H. AMP			
VR506	1-224-646-XX	(B) 22k, adjustable; H. FREQ			
VR507	1-221-389-XX	(B) 5k, adjustable; Y. BOW			
VR508	1-224-645-XX	(B) 10k, adjustable; PIN BIAS			
VR509	1-221-390-XX	(B) 3k, adjustable; PIN AMP			
VR601	1-224-643-XX	(B) 2.2k, adjustable; 135V ADJ			
VR701	1-224-640-XX	(B) 330, adjustable; B. DRIVE			
VR702	1-224-640-XX	(B) 330, adjustable; G. DRIVE			
VR703	1-224-640-XX	(B) 330, adjustable; R. DRIVE			
VR704	1-224-812-00	(C) 2.2M, adjustable; FOCUS			
VR705	1-224-975-00	(C) 1M, adjustable; SCRN			
VR801	1-223-020-00	(B) 50, adjustable; H. CENT			
VR851	1-224-774-00	(H) 90M, adjustable; H. STAT			
MISCELLANEOUS					
DC851	1-453-071-00	(C) High Voltage Rectifier Block			
F201	1-532-389-00	(B) Fuse, 0.5AT			
F601	1-532-465-00	(C) Fuse, 3.15AT			
J901A, B	1-507-174-51	(B) Jack, EARPHONE			
NE701, 702	1-519-108-XX	(B) Lamp, neon			
S451	1-516-473-XX	(C) Switch, slide; AFT			
SG01	1-516-390-00	(E) Switch, pushbutton; POWER			
SG701-705	1-519-063-XX	(B) Spark Gap			
SG801					
SP901	1-502-650-00	(G) Speaker, 8Ω			
V901	8-737-602-05	(Z) Picture Tube, 570EB22			
X301	1-527-274-00	(G) Crystal			
	1-452-032-00	(A) Magnet, disk; 10mm dia			
	1-452-060-21	(C) Magnet, BMC			
	1-452-094-00	(B) Magnet, rotatable disk; 15mm dia			
	1-526-086-XX	(B) Socket, picture tube			
	1-476-551-51	(B) Cap, anode			
	1-533-087-00	(A) Holder, fuse			
	1-534-631-00	(B) Coaxial Cable with Plug			
	1-536-270-XX	(B) Terminal Strip			
	1-536-473-21	(I) Terminal, antenna			
	1-534-817-00	(E) Cord, Power			

SUPPLEMENT

Subject: Circuit Modification

This supplement updates the service manual to include production changes starting with Serial No. 600,001.



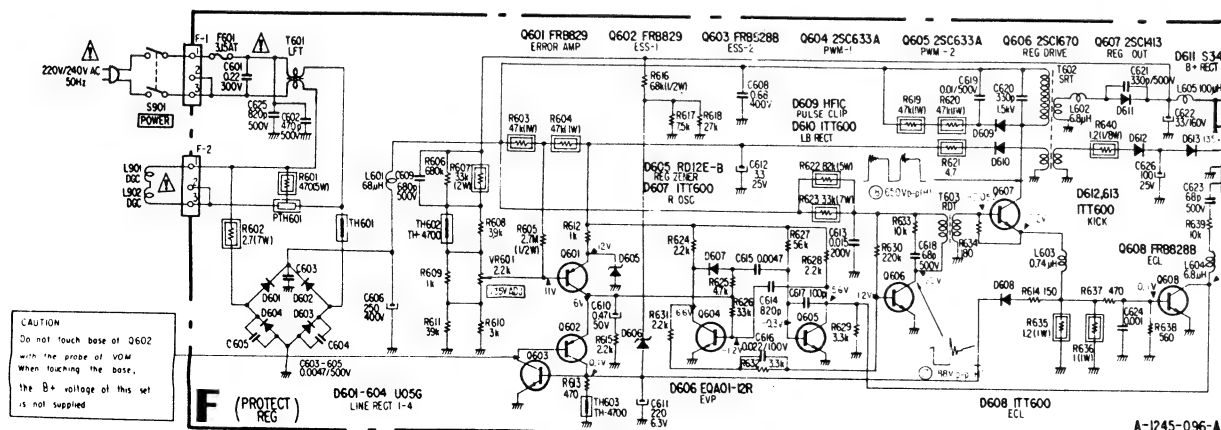
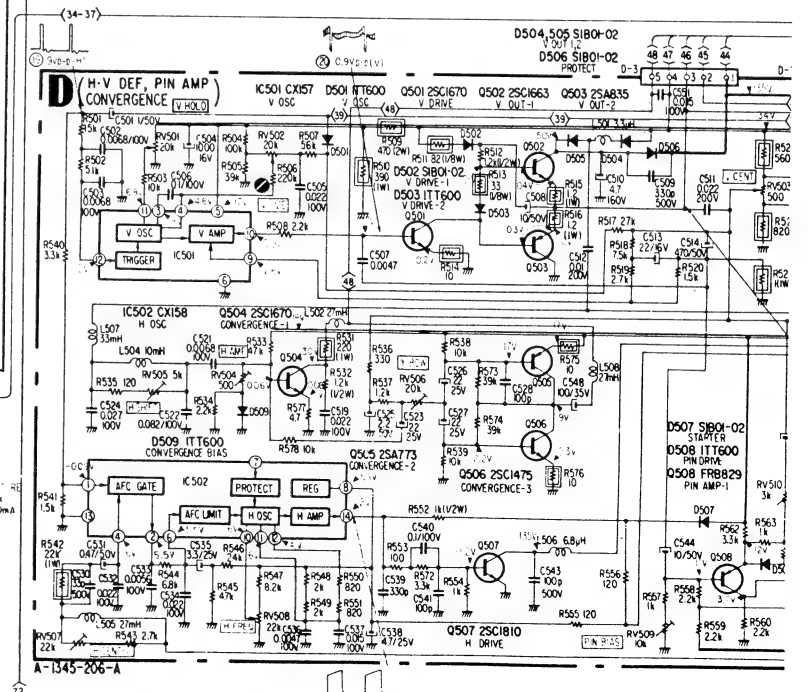
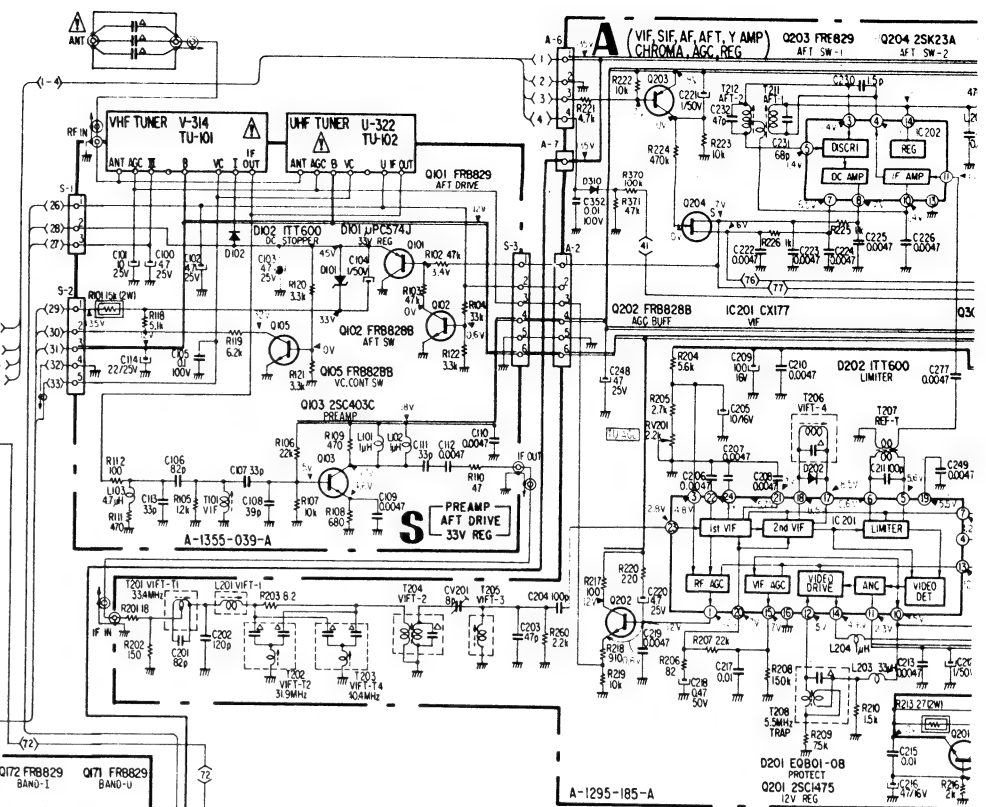
- **INTRODUCTION**
The each circuit has been partially changed.
- **INTERCHANGEABILITY**
All the former and new circuit boards are not interchangeable.

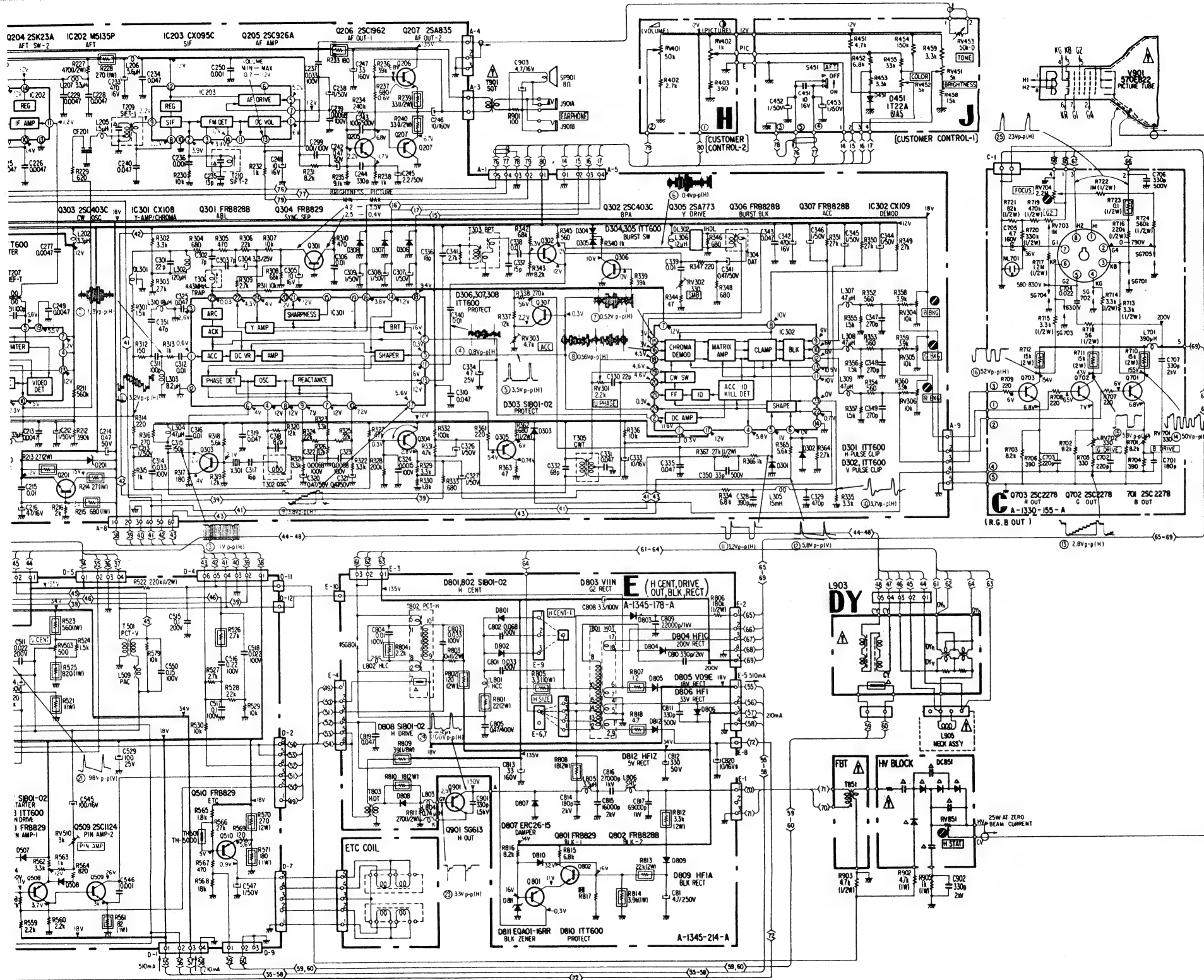
SPECIFICATIONS

Television System: CCIR system B, G and H
Color System: PAL
Picture Tube: 56cm, 22" (measured diagonally), 114° deflection TRINITRON system
Semiconductors: 1 FET, 48 transistors, 73 diodes, 14 ICs and 1 GCS (Gate Controlled Switch)
Antennas: VHF/UHF 75Ω unbalanced, Coaxial antenna connection socket is equipped.
Channel Coverage: VHF channels: E2-4 (Band I), E5-12 (Band III)
UHF channels: E21-68 (Band U)
Intermediate Frequencies: Picture I-F carrier: 38.9MHz
Color subcarrier: 34.47MHz
Sound I-F carrier: 33.4MHz
Sound System: 5.5MHz intercarrier
Output power: 2W (at 10% harmonic distortion)
Speaker: 12cm (4 1/2 inch) dia, 8Ω
Video System: RGB cathode drive

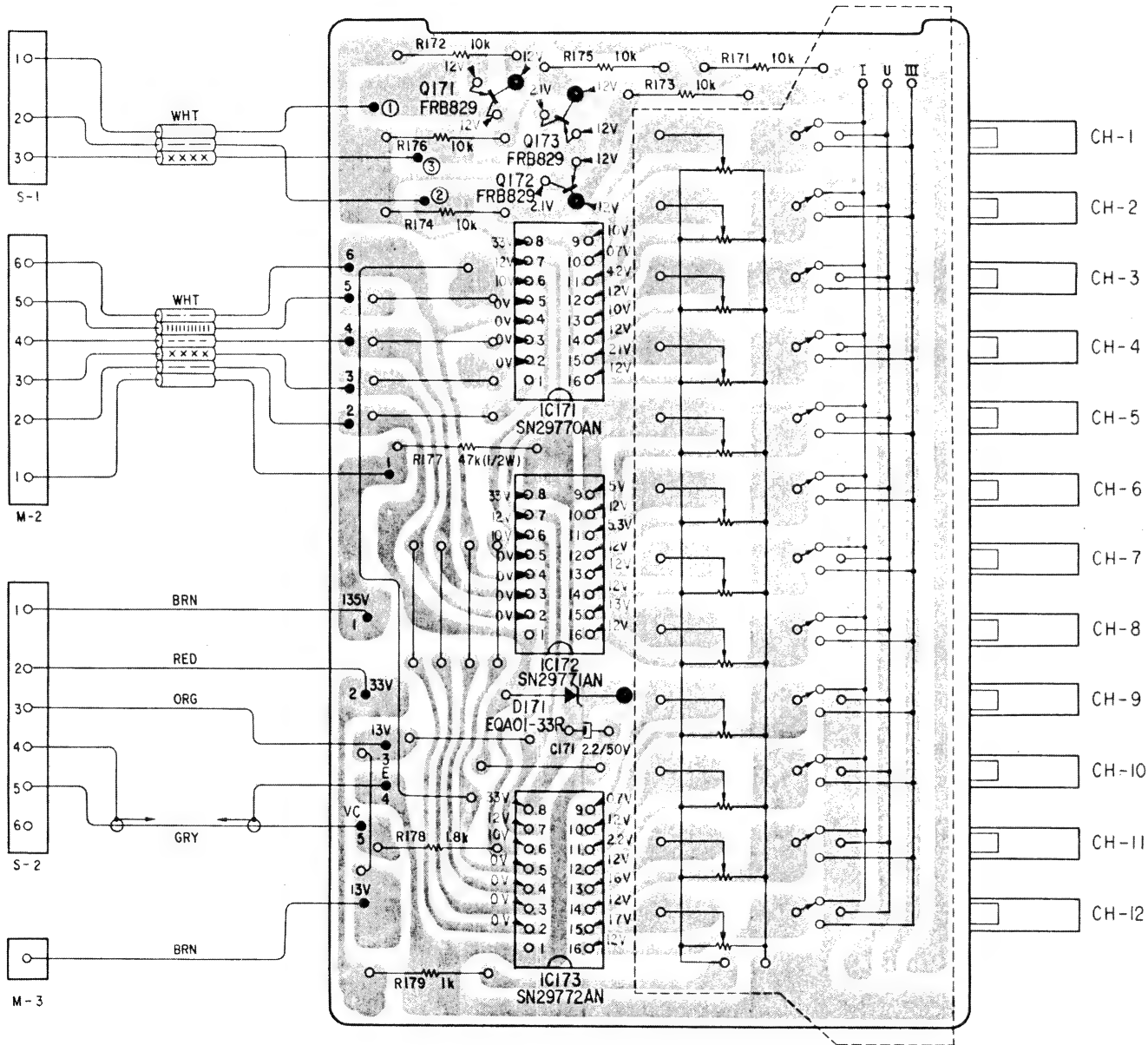
Automatic Controls: ABL (automatic brightness limiter)
ACC (automatic color control)
ACK (automatic color killer)
ADG (automatic degaussing)
AFC (automatic frequency control)
AFT (automatic fine tuning)
AGC (automatic gain control)
ANC (automatic noise canceller)
AVR (automatic voltage regulator)
APC (automatic phase control)

Anode Voltage: 25kV at zero beam current
Hochspannung: 25kV bei 0 mA Strahlstrom
Power Requirements: 220/240V AC, 50Hz
Power Consumption: 128W
Dimensions: 669 (w) x 459 (h) x 413 (d) mm
26 3/8 (w) x 18 1/2 (h) x 16 1/4 (d) inches
Net Weight: 34kg (74 lb 15 oz)
Accessories Supplied: Earphone (ME-20E)
Instruction Manual

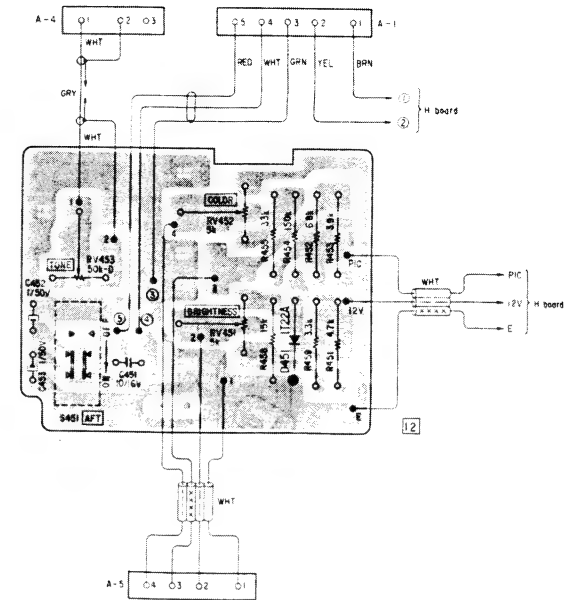




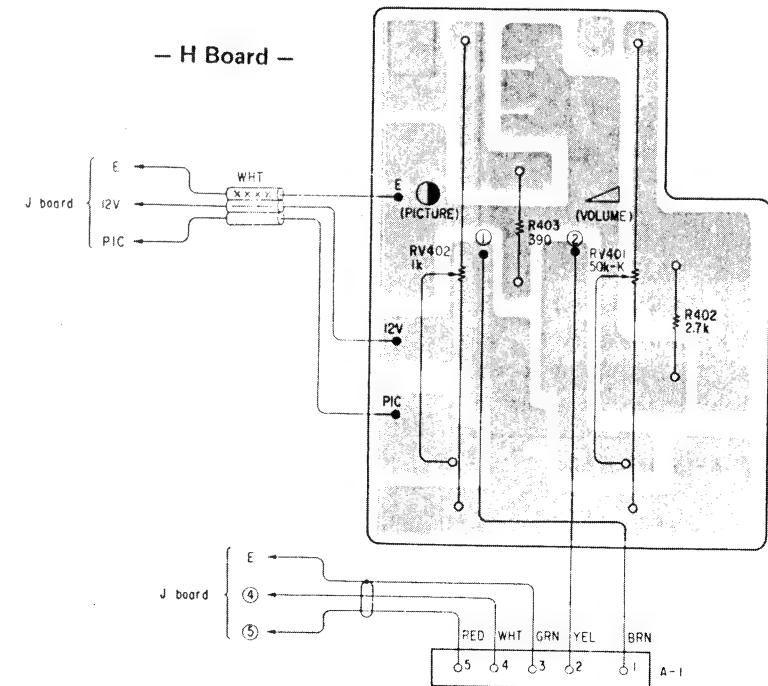
— U Board —



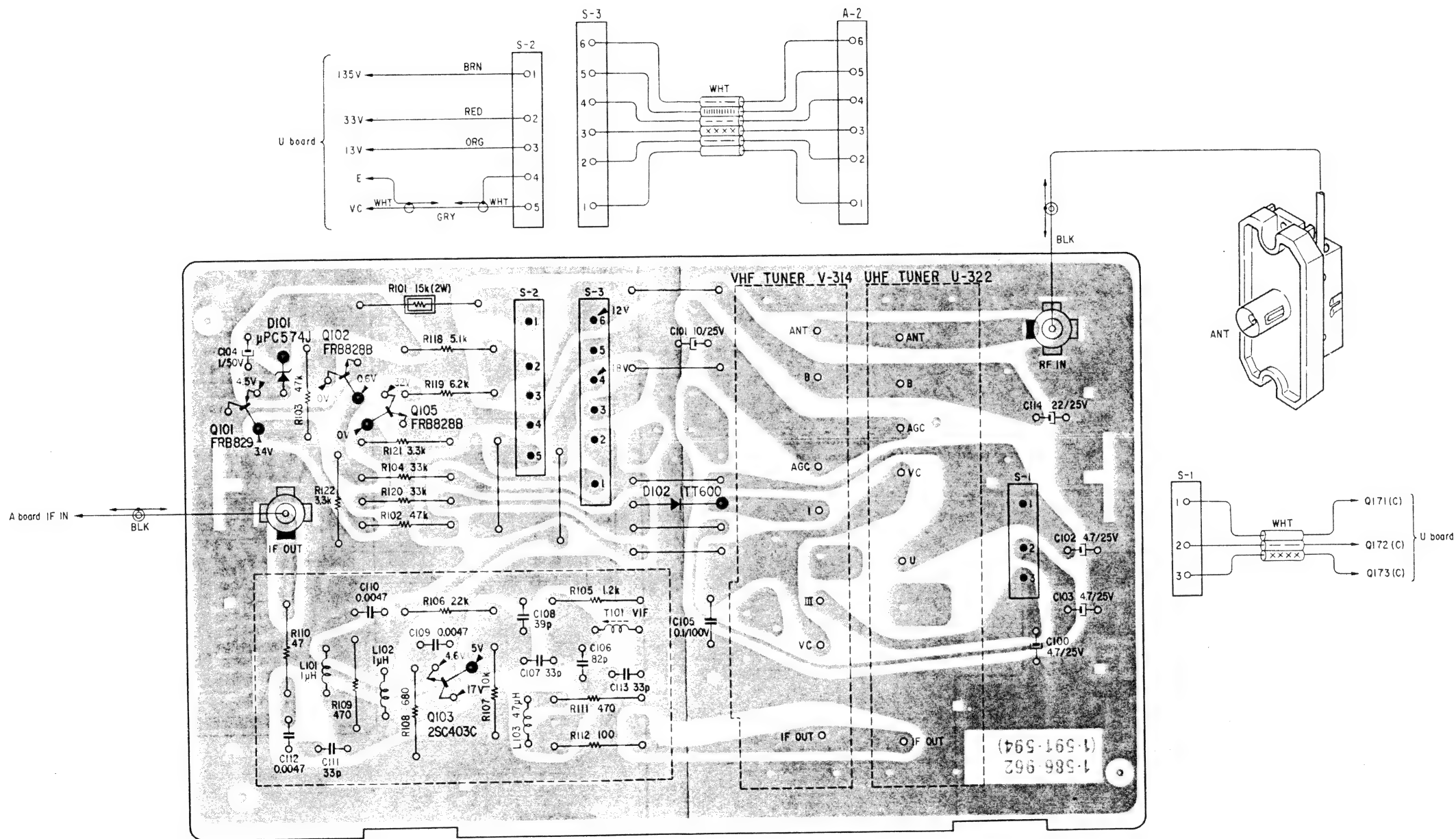
— J Board —



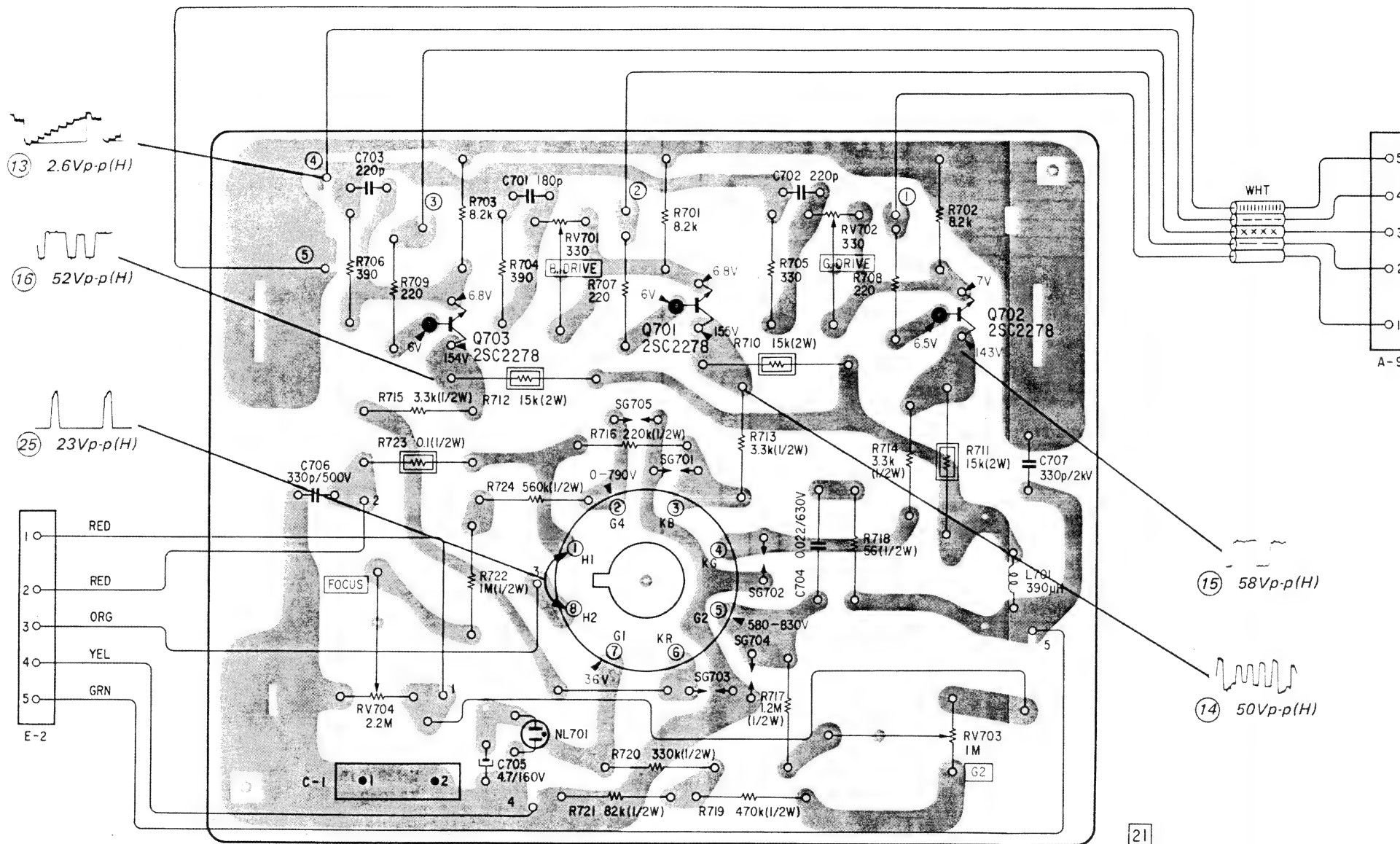
— H Board —



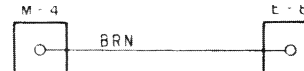
— S Board —



A-1355-039-A

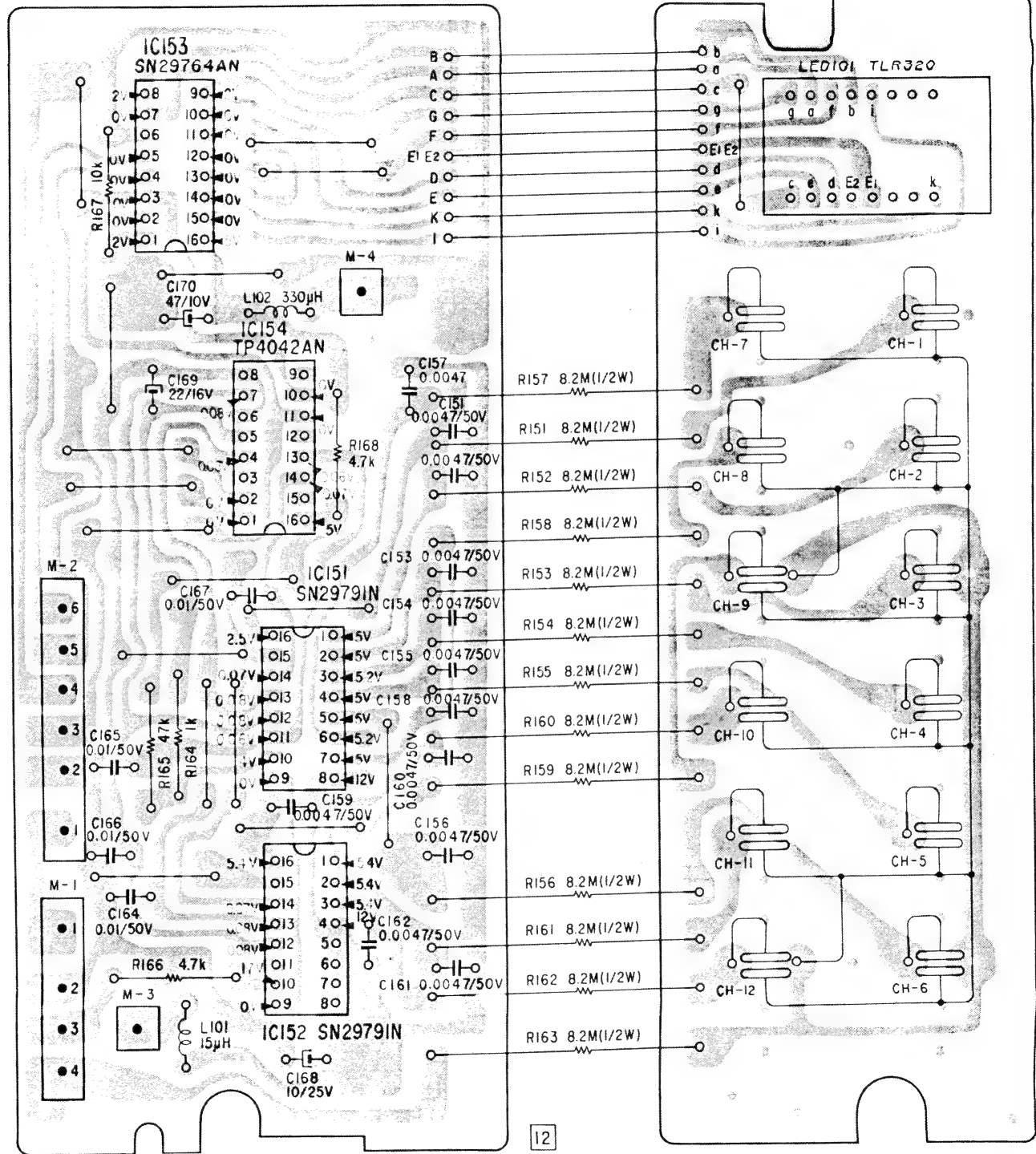
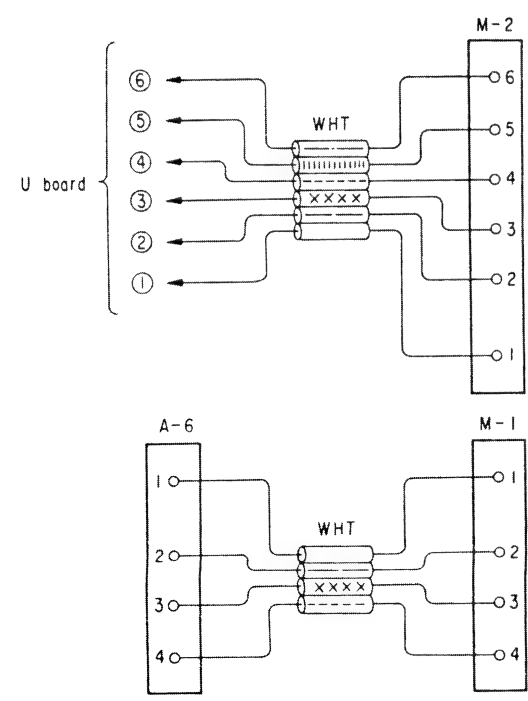


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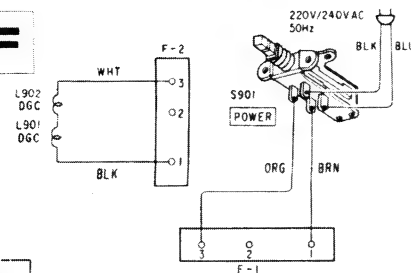


M2 board

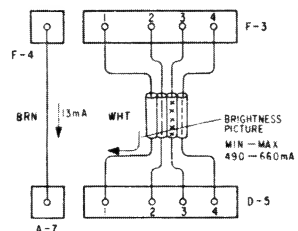
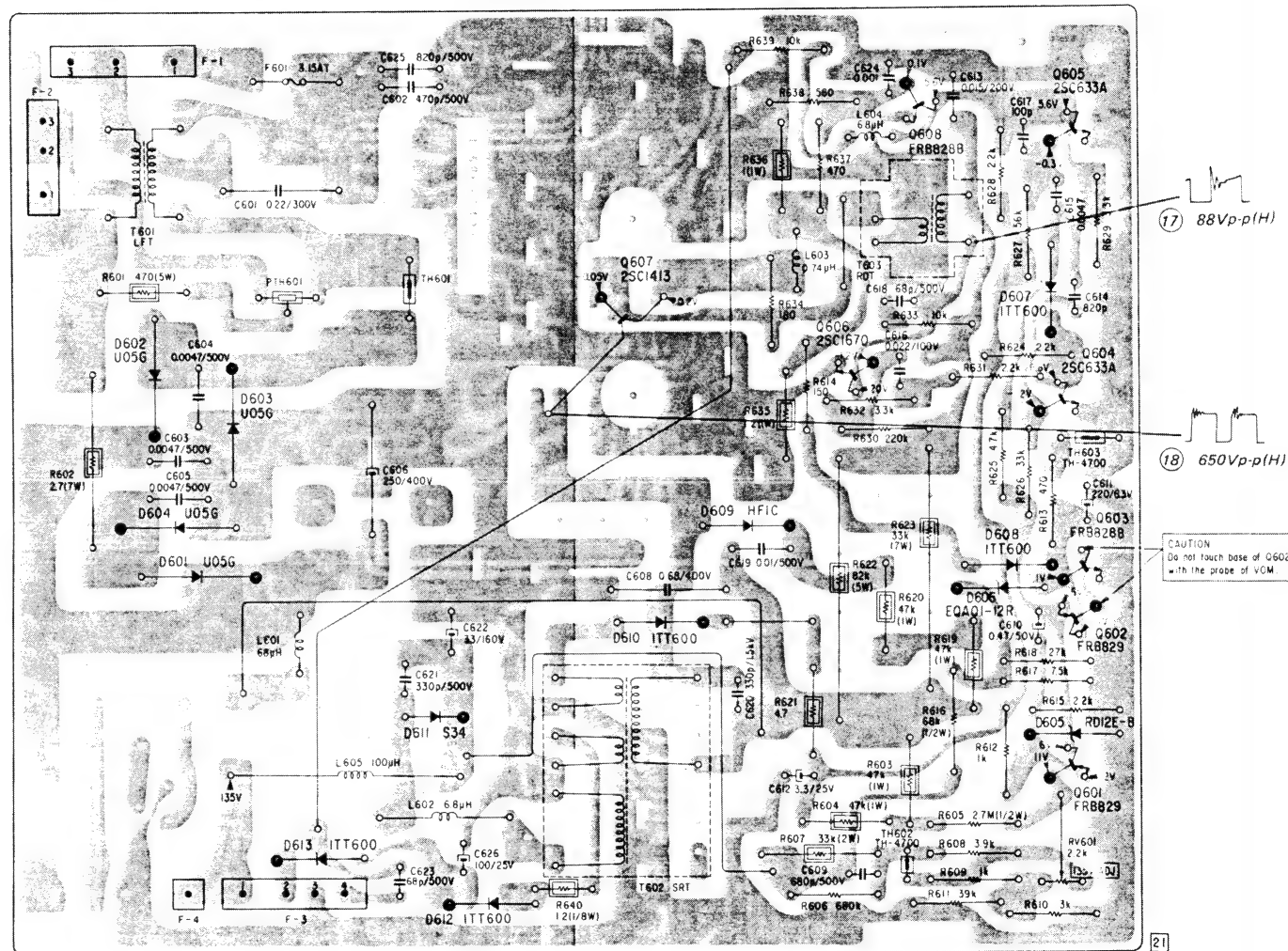
M1 board

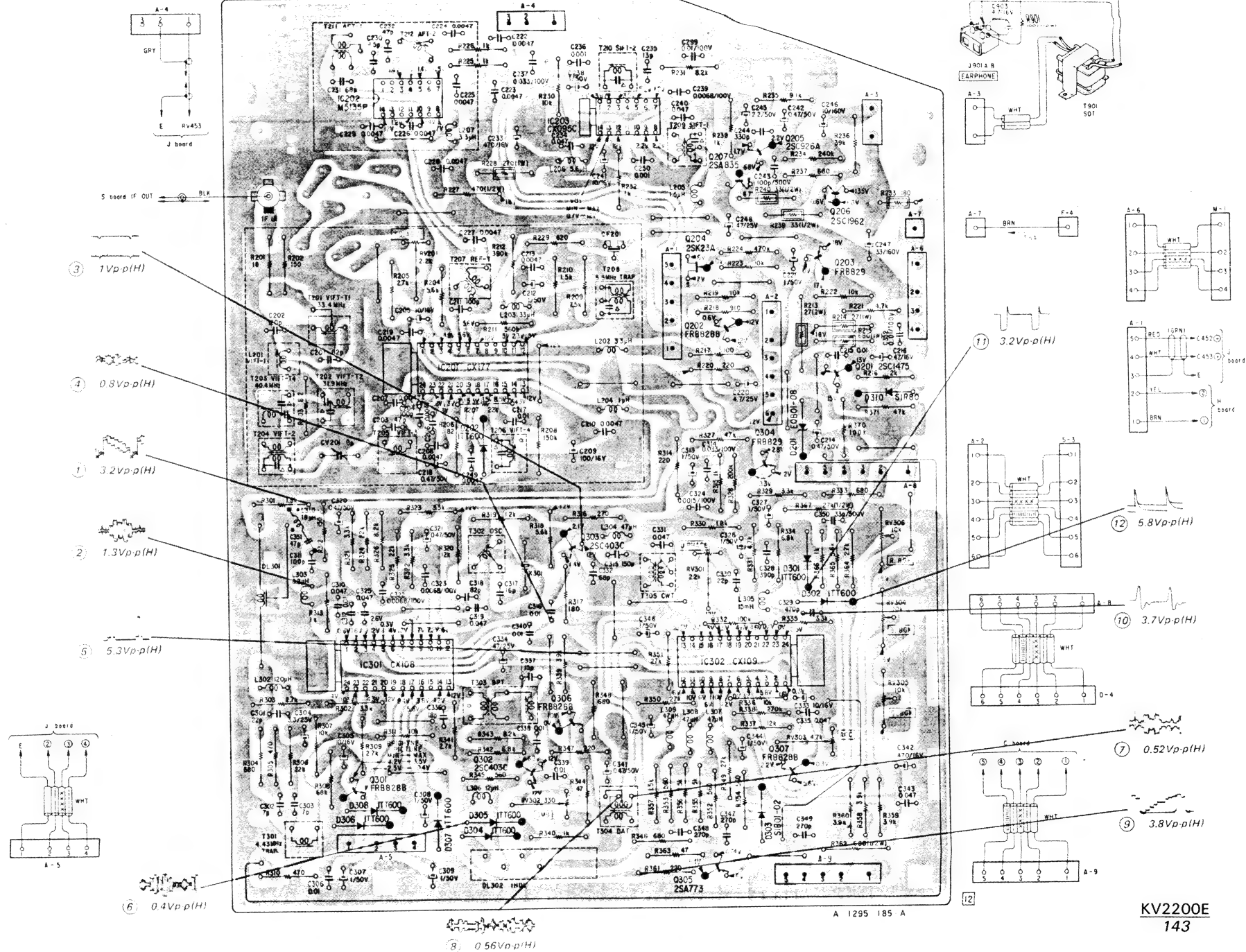


— F Board —

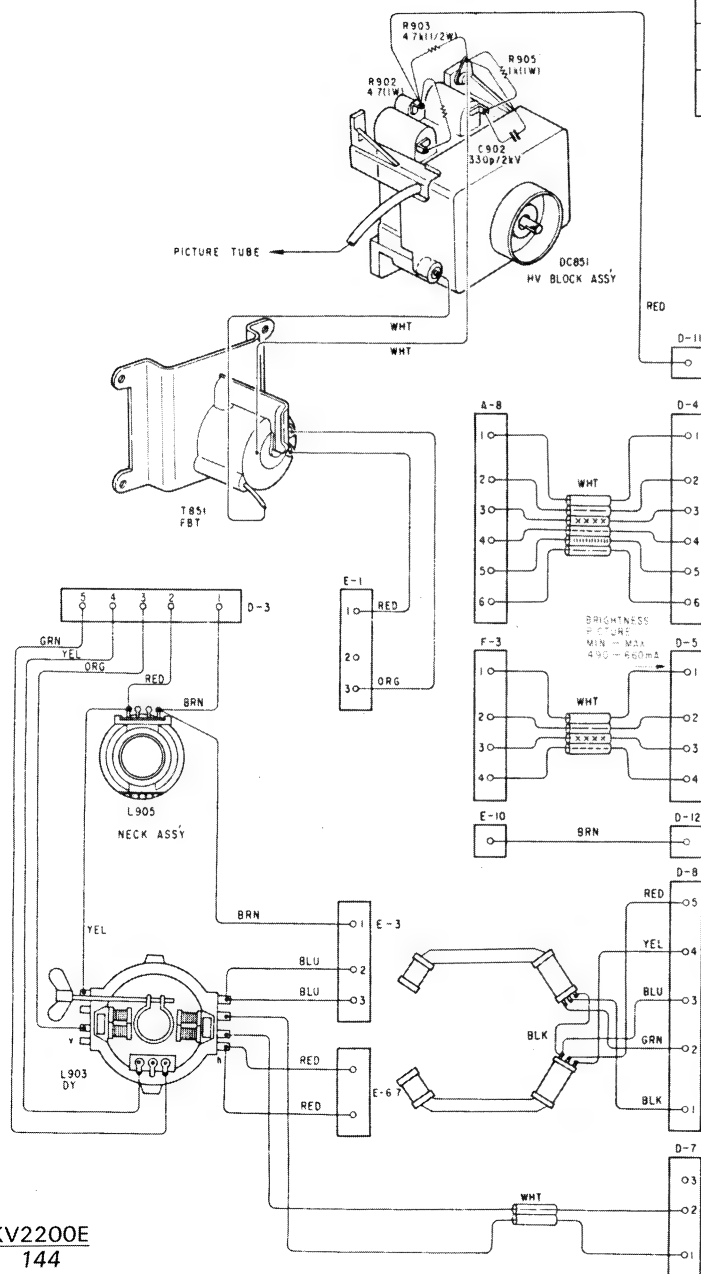


Q	D	ADJ
608 605		
607	607	
606 604	602 603 604 609	
603 602	608 601 606 610	
601	611 605 613 612	RV601
Q	D	ADJ

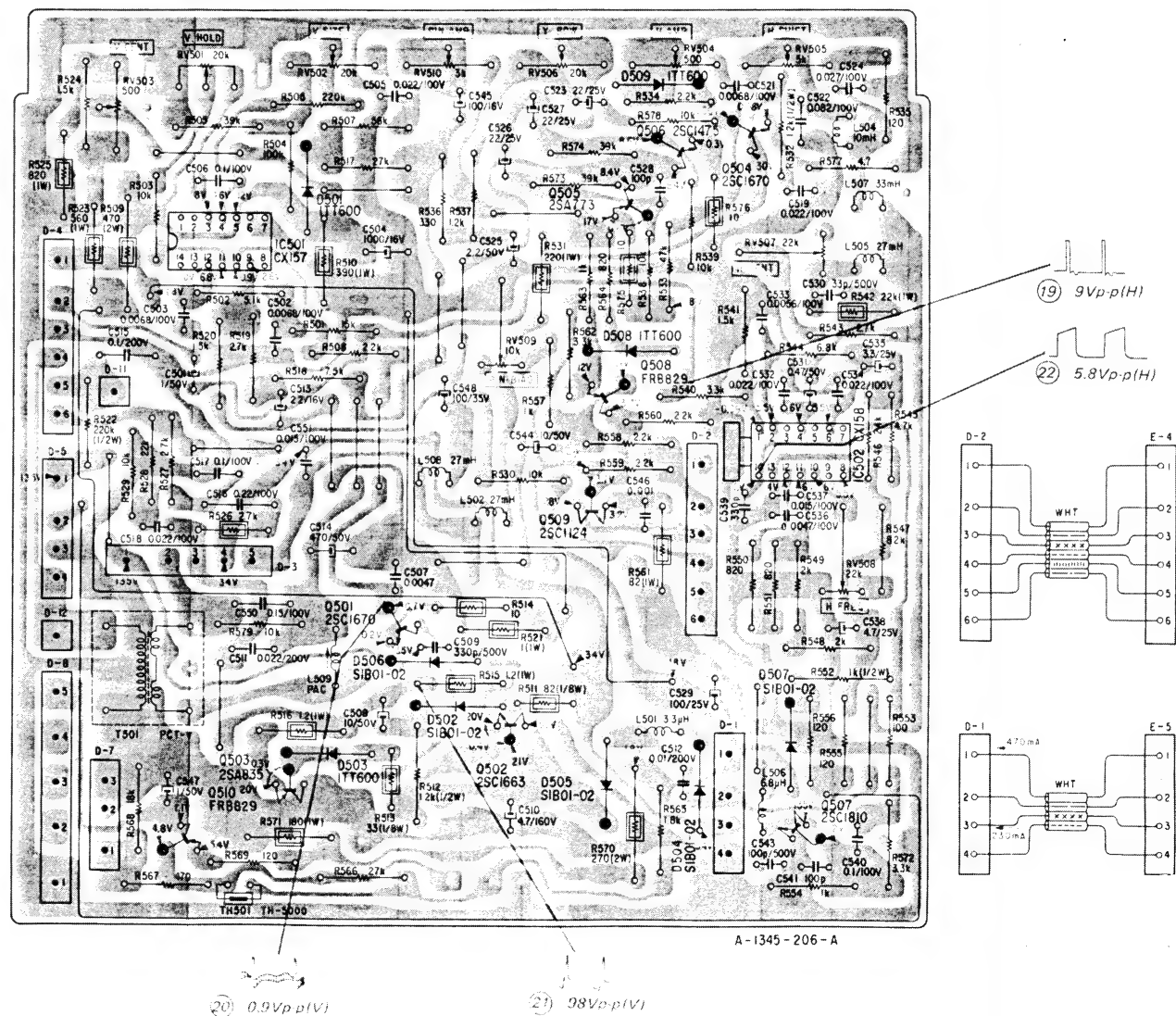




- D Board -



Q I C	IC501 510	501 503	509 502	505 508	506 504	IC502 507	Q I C
D	501 503	506 502	508 505	509 504	507	D	
A D J	RV503 RV501	RV502 RV510	RV509 RV506	RV504 RV505	RV507 RV508	A D J	



— E Board —

CAUTION

CONNECTOR INSTALLATION (for H.SIZE Adjustment)

When plugging the connector in the terminal boards E-6 and E-7, always install it as shown in Fig. A.

CORRECT

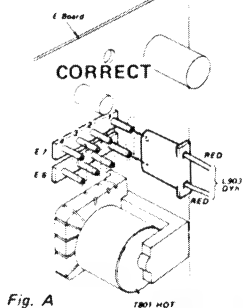


Fig. A

INCORRECT

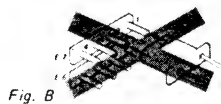
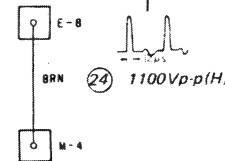
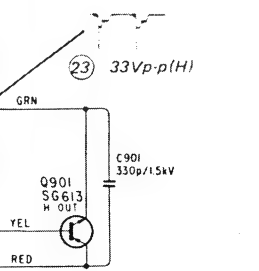
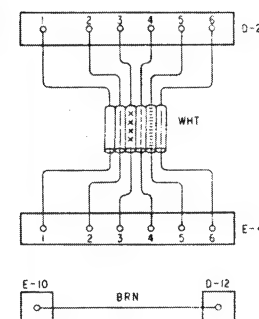
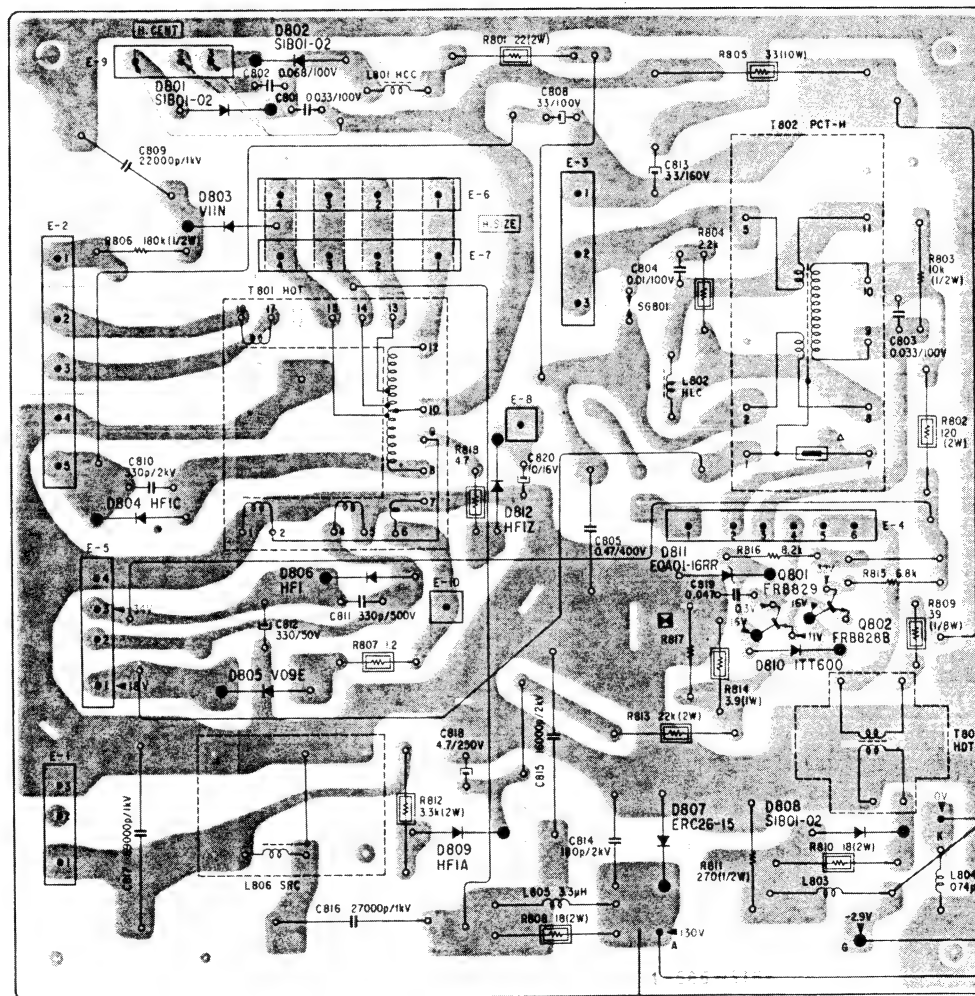
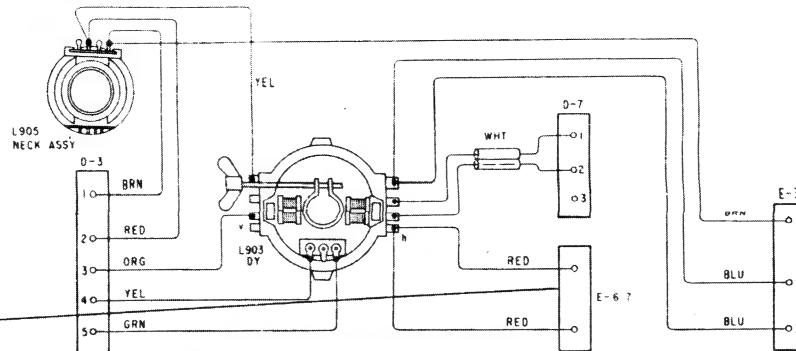
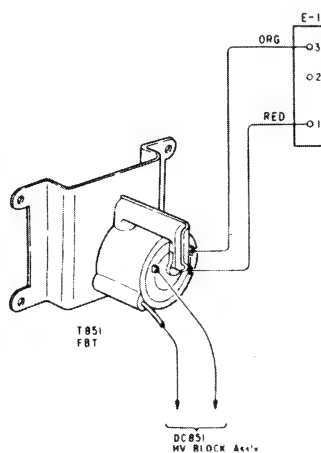
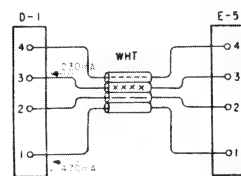
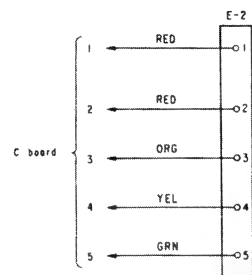


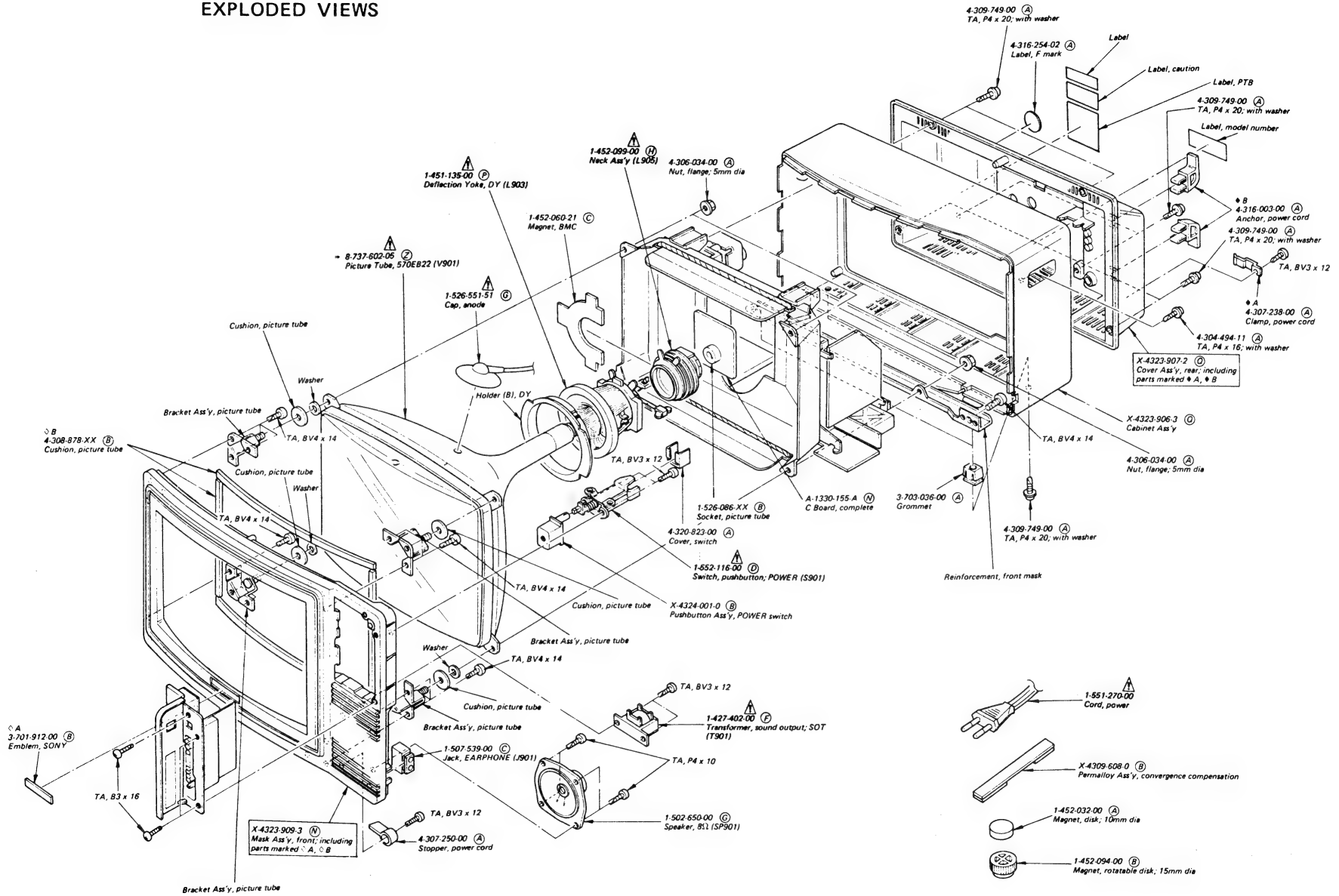
Fig. B

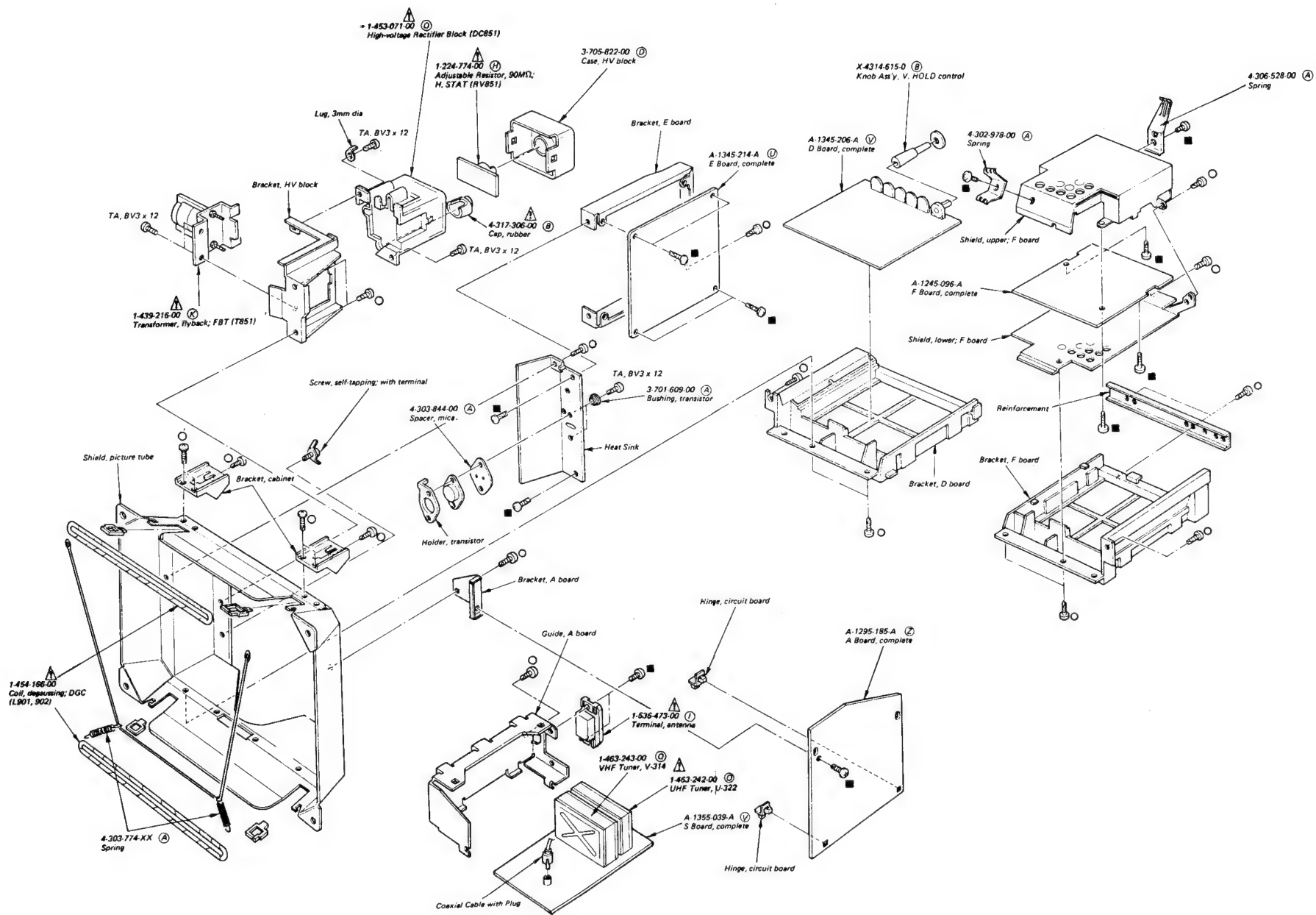
Q	D
	802
	801
	803
	812
	804
	806
	811
802	810
801	805
	809
	808
	807
901	
Q	D

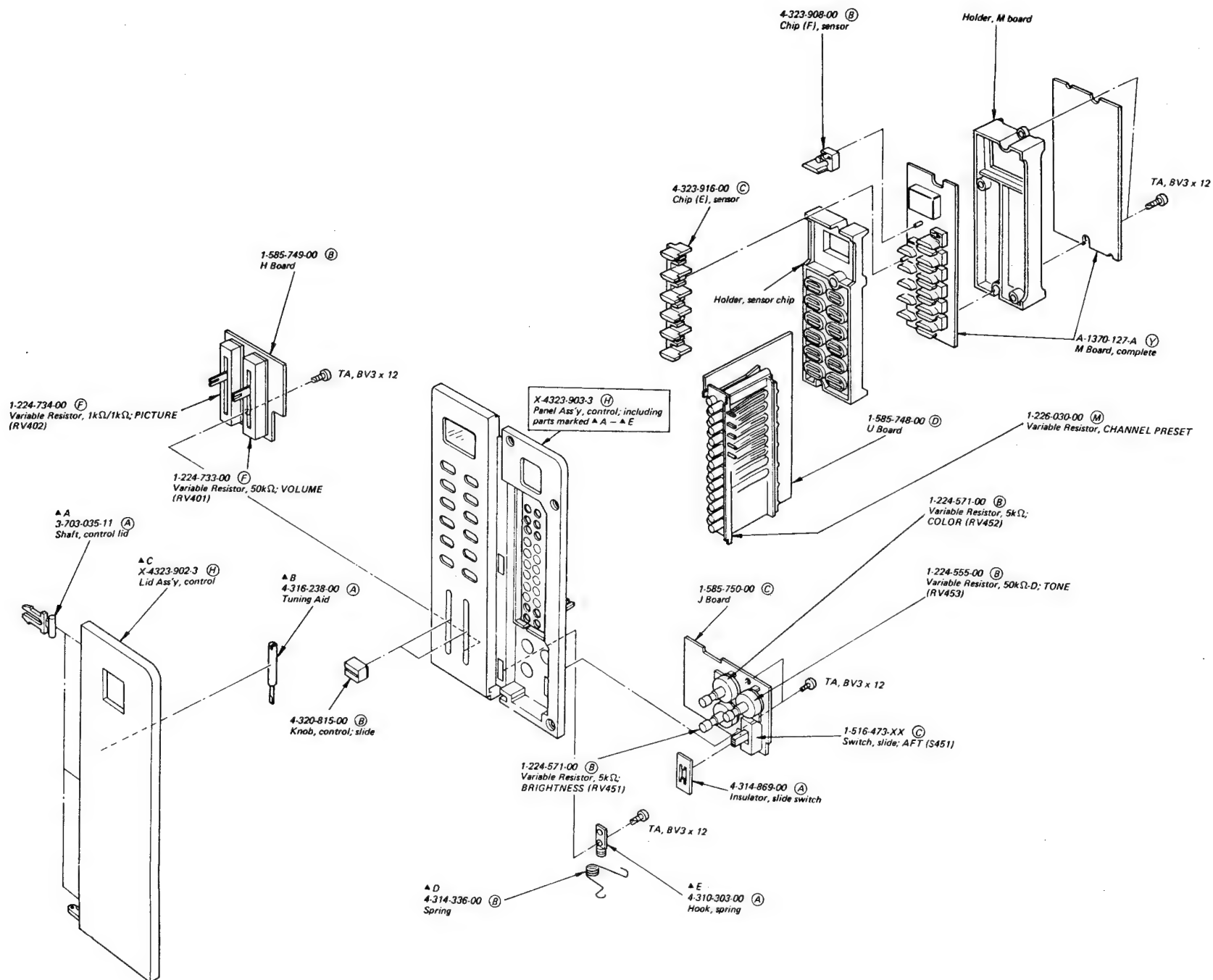


A-1345-214-A

EXPLODED VIEWS







ELECTRICAL PARTS LIST

[illegible]

- ⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Ref. No.	Part No.	Description
L601	1-421-249-00	(C) 68μH, spook choke
L602	1-407-556-00	(A) 6.8μH, spook choke
L603	1-407-365-00	(A) 0.74μH, spook choke
L604	1-407-188-XX	(A) 6.8μH
L605	1-407-720-00	(B) 100μH, spook choke
L701	1-407-712-00	(A) 390μH
L801	1-459-075-00	(B) Horizontal Centering Choke, HCC
L802	1-459-147-00	(E) Horizontal Linearity, HLC
L803	1-407-364-00	(B) Spook Choke
L804	1-407-365-00	(A) 0.74μH, spook choke
L805	1-407-780-00	(B) 3.3μH, spook choke
L806	1-413-027-00	(F) Series Regulation, SRC
L901, 902	Δ 1-454-166-00	Degaussing, DGC
L903	Δ 1-451-135-00	(P) Deflection Yoke, DY
L905	Δ 1-452-099-00	(H) Neck Assy
DL301	1-415-101-00	(D) Delay Line
DL302	1-415-131-00	(J) 1H Delay Line
TRANSFORMERS AND FILTER		
CF201	1-527-263-00	(B) Ceramic Filter
T101	1-404-096-00	(B) VIF
T201	1-409-225-00	(B) VIFT-T1, 33.4MHz
T202	1-409-312-00	(B) VIFT-T2, 31.9MHz
T203	1-409-314-00	(B) VIFT-T4, 40.4MHz
T204	1-403-947-00	(B) VIFT-2
T205	1-404-047-00	(B) VIFT-3
T206	1-403-729-00	(B) VIFT-4
T207	1-404-080-00	(B) REF-T
T208	1-409-235-00	(B) 5.5MHz Trap
T209	1-404-097-00	(B) SIFT-1
T210	1-403-843-00	(B) SIFT-2
T211	1-403-810-00	(B) AFT-1
T212	1-403-811-00	(B) AFT-2
T301	1-409-193-00	(B) 4.43MHz Trap
T302	1-405-733-00	(B) Automatic Phase Control, APC

Ref. No.	Part No.	Description
T303	1-425-927-00	(C) Bandpass, BPT
T304	1-404-081-00	(B) Delay Adjustment, DAT
T305	1-425-928-00	(B) Continuous-wave Oscillation, CWT
T501	1-421-245-11	(F) Vertical Pincushion Correction, PCT-V
T601	Δ 1-441-855-00	(C) Line Filter, LFT
T602	1-413-028-00	(K) Switching Regulator, SRT
T603	1-437-066-00	(C) Regulator Drive, RDT
T801	1-439-201-00	(J) Horizontal Output, HOT
T802	1-421-320-00	(J) Horizontal Pincushion Correction, PCT-H
T803	1-437-065-00	(C) Horizontal Drive, HDT
T851	Δ 1-439-216-00	(K) Flyback, FBT
T901	Δ 1-427-402-00	(F) Sound Output, SOT

CAPACITORS

All capacitors are in μF and ceramic unless otherwise noted.
50WV or less are not indicated except for electrolytics.
pF : μμF, elect : electrolytic

C100	1-121-395-11	(A) 4.7	25V	elect
C101	1-121-398-11	(A) 10	25V	elect
C102, 103	1-121-395-11	(A) 4.7	25V	elect
C104	1-121-391-11	(A) 1	50V	elect
C105	1-108-389-11	(B) 0.1	100V	mylar
C106	1-102-863-11	(A) 82p		
C107	1-102-884-11	(A) 33p		
C108	1-102-889-11	(A) 39p		
C109, 110	1-102-102-11	(A) 0.0047		
C111	1-102-963-11	(A) 33p		
C112	1-102-102-11	(A) 0.0047		
C113	1-102-884-11	(A) 33p		
C114	1-121-480-11	(A) 22	25V	elect
C151-162	1-102-102-11	(A) 0.0047		
C164-167	1-101-004-11	(A) 0.01		
C168	1-121-398-11	(A) 10	25V	elect
C169	1-121-479-11	(A) 22	16V	elect
C170	1-121-352-11	(A) 47	10V	elect
C171	1-121-450-11	(A) 2.2	50V	elect

Ref. No.	Part No.	Description
C201	1-102-527-11	(A) 82p
C202	1-102-816-11	(A) 120p
C203	1-101-984-11	(A) 47p
C204	1-102-973-11	(A) 100p
C205	1-121-651-11	(A) 10 16V elect
C206-208	1-102-102-11	(A) 0.0047
C209	1-121-415-11	(A) 100 16V elect
C210	1-102-102-11	(A) 0.0047
C211	1-102-529-11	(A) 100p
C212	1-121-391-11	(A) 1 50V elect
C213	1-102-102-11	(A) 0.0047
C214	1-121-726-11	(A) 0.47 50V elect
C215	1-101-004-11	(A) 0.01
C216	1-121-409-11	(A) 47 16V elect
C217	1-102-129-11	(A) 0.01
C218	1-121-726-11	(A) 0.47 50V elect
C219	1-102-102-11	(A) 0.0047
C220	1-121-395-11	(A) 4.7 25V elect
C221	1-121-391-11	(A) 1 50V elect
C222-229	1-102-102-11	(A) 0.0047
C230	1-101-576-11	(A) 1.5p
C231	1-102-525-11	(A) 68p
C232	1-102-852-11	(A) 47p
C233	1-121-940-11	(B) 470 16V elect
C234	1-101-006-11	(A) 0.047
C235	1-102-667-11	(A) 13p
C236	1-102-074-11	(A) 0.001
C237	1-108-383-11	(A) 0.033 100V mylar
C238	1-121-391-11	(A) 1 50V elect
C239	1-108-375-11	(A) 0.0068 100V mylar
C240	1-101-006-11	(A) 0.047
C241	1-121-651-11	(A) 10 16V elect
C242	1-121-726-11	(A) 0.47 50V elect
C243	1-101-810-11	(A) 100p 500V
C244	1-102-112-11	(A) 330p
C245	1-121-450-11	(A) 2.2 50V elect
C246	1-123-178-11	(B) 10 160V elect
C247	1-121-757-11	(B) 33 160V elect
C248	1-121-410-11	(B) 47 25V elect

Ref. No.	Part No.	Description
C249	1-102-102-11	(A) 0.0047
C250	1-102-074-11	(A) 0.001
C299	1-108-377-11	(A) 0.01 100V mylar
C301	1-102-959-11	(A) 22p
C302, 303	1-102-662-11	(A) 7p
C304	1-121-392-11	(A) 3.3 25V elect
C305	1-121-651-11	(A) 10 16V elect
C306	1-101-004-11	(A) 0.01
C307-309	1-121-391-11	(A) 1 50V elect
C310	1-101-006-11	(A) 0.047
C311	1-102-973-11	(A) 100p
C312	1-101-004-11	(A) 0.01
C313	1-121-391-11	(A) 1 50V elect
C314	1-108-383-11	(A) 0.033 100V mylar
C315	1-101-361-11	(A) 150p
C316	1-101-004-11	(A) 0.01
C317	1-102-512-11	(A) 16p
C318	1-102-700-11	(A) 82p
C319	1-101-006-11	(A) 0.047
C320, 321	1-121-726-11	(A) 0.47 50V elect
C322, 323	1-108-375-11	(A) 0.0068 100V mylar
C324	1-108-367-11	(A) 0.0015 100V mylar
C325	1-101-006-11	(A) 0.047
C326, 327	1-121-391-11	(A) 1 50V elect
C328	1-102-822-11	(A) 390p
C329	1-102-824-11	(A) 470p
C330	1-102-892-11	(A) 22p
C331	1-101-006-11	(A) 0.047
C332	1-102-676-11	(A) 68p
C333	1-121-651-11	(A) 10 16V elect
C334	1-121-410-11	(B) 47 25V elect
C335	1-101-006-11	(A) 0.047
C336	1-102-670-11	(A) 18p
C337	1-102-668-11	(A) 15p
C338-340	1-101-004-11	(A) 0.01
C341	1-121-726-11	(A) 0.47 50V elect
C342	1-121-940-11	(B) 470 16V elect
C343	1-101-006-11	(A) 0.047

Ref. No.	Part No.	Description
C344-346	1-121-391-11 (A) 1	50V elect
C347-349	1-102-980-11 (A) 270p	
C350	1-102-233-11 (C) 33p	500V
C351	1-101-880-11 (A) 47p	
C352	1-108-626-11 (A) 0.01	100V mylar
C451	1-121-806-11 (B) 10	16V elect (nonpolarized)
C452, 453	1-121-391-11 (A) 1	50V elect
C501	1-121-391-11 (A) 1	50V elect
C502, 503	1-108-375-11 (A) 0.0068	100V mylar
C504	1-121-944-11 (E) 1000	16V elect
C505	1-108-381-11 (B) 0.022	100V mylar
C506	1-108-389-11 (B) 0.1	100V mylar
C507	1-102-125-11 (A) 0.0047	
C508	1-121-738-11 (A) 10	50V elect
C509	1-102-030-11 (A) 330p	500V
C510	1-123-269-11 (B) 4.7	160V elect
C511	1-108-425-11 (B) 0.022	200V mylar
C512	1-108-421-11 (B) 0.01	200V mylar
C513	1-121-479-11 (A) 22	16V elect
C514	1-121-983-11 (B) 470	50V elect
C515	1-108-433-11 (B) 0.1	200V mylar
C516	1-108-393-11 (B) 0.22	100V mylar
C517	1-108-389-11 (B) 0.1	100V mylar
C518, 519	1-108-381-11 (B) 0.22	100V mylar
C521	1-108-375-11 (A) 0.0068	100V mylar
C522	1-108-388-11 (A) 0.082	100V mylar
C523	1-121-480-11 (A) 22	25V elect
C524	1-108-382-11 (A) 0.027	100V mylar
C525	1-121-986-11 (A) 2.2	50V elect
C526, 527	1-121-480-11 (A) 22	25V elect
C528	1-102-973-11 (A) 100p	
C529	1-121-935-11 (B) 100	25V elect
C530	1-101-810-11 (A) 100p	500V
C531	1-121-726-11 (A) 0.47	50V elect
C532	1-108-381-11 (B) 0.022	100V mylar
C533	1-108-374-11 (A) 0.0056	100V mylar
C534	1-108-381-11 (B) 0.022	100V mylar

Ref. No.	Part No.	Description
C535	1-121-392-11 (A) 3.3	25V elect
C536	1-108-373-11 (A) 0.0047	100V mylar
C537	1-129-927-11 (B) 0.015	100V polyethylene
C538	1-121-395-11 (A) 4.7	25V elect
C539	1-102-820-11 (A) 330p	
C540	1-108-389-11 (B) 0.1	100V mylar
C541	1-102-973-11 (A) 100p	
C543	1-101-810-11 (A) 100p	500V
C544	1-121-955-11 (B) 10	50V elect
C545	1-121-704-11 (B) 100	16V elect
C546	1-101-001-11 (A) 0.001	
C547	1-121-391-11 (A) 1	50V elect
C548	1-123-059-11 (B) 100	35V elect
C550	1-108-391-11 (B) 0.15	100V mylar
C551	1-129-927-11 (B) 0.015	100V polyethylene
C601	1-108-745-11 (D) 0.22	300V mylar
C602	1-102-228-11 (A) 470p	500V
C603-605	1-102-085-11 (A) 0.0047	500V
C606	1-125-167-11 (G) 250	400V elect
C608	1-129-943-11 (B) 0.68	400V polyethylene
C609	1-102-002-11 (A) 680p	500V
C610	1-121-726-11 (A) 0.47	50V elect
C611	1-121-419-11 (B) 220	6.3V elect
C612	1-121-392-11 (A) 3.3	25V elect
C613	1-108-423-11 (B) 0.015	200V mylar
C614	1-130-017-11 (A) 820p	
C615	1-130-026-11 (A) 0.0047	polyethylene
C616	1-108-381-11 (B) 0.022	100V mylar
C617	1-102-106-11 (A) 100p	
C618	1-102-989-11 (A) 68p	500V
C619	1-102-050-11 (A) 0.01	500V
C620	1-102-327-11 (B) 330p	1.5kV
C621	1-102-030-11 (A) 330p	500V
C622	1-123-024-11 (B) 33	160V elect
C623	1-102-989-11 (A) 68p	500V
C624	1-101-001-11 (A) 0.001	
C625	1-102-212-11 (A) 820p	500V
C626	1-121-935-11 (B) 100	25V elect

Ref. No.	Part No.	Description
C701	1-102-976-11 (A) 180p	
C702, 703	1-102-978-11 (A) 220p	
C704	1-129-735-11 (C) 0.022	630V polyethylene
C705	1-121-246-11 (A) 4.7	160V elect
C706	1-102-030-11 (A) 330p	
C707	1-102-155-11 (A) 330p	2kV
C801	1-108-383-11 (A) 0.033	100V mylar
C802	1-108-387-11 (B) 0.068	100V mylar
C803	1-108-383-11 (A) 0.033	100V mylar
C804	1-108-377-11 (A) 0.01	100V mylar
C805	1-130-007-11 (C) 0.47	400V polyethylene
C808	1-121-997-11 (B) 33	100V elect
C809	1-129-779-11 (B) 22000p	1kV polyethylene
C810	1-102-155-11 (A) 330p	2kV
C811	1-102-030-11 (A) 330p	500V
C812	1-123-060-11 (B) 330	50V elect
C813	1-123-024-11 (B) 33	160V elect
C814	1-102-154-11 (A) 180p	2kV
C815	1-130-144-11 (C) 16000p	2kV polyethylene
C816	1-130-041-11 (E) 27000p	1kV polyethylene
C817	1-130-042-11 (C) 69000p	1kV polyethylene
C818	1-121-747-11 (B) 4.7	250V elect
C819	1-101-006-11 (A) 0.047	
C820	1-121-651-11 (A) 10	16V elect
C901	1-102-327-11 (B) 330p	1.5kV
C902	1-102-155-11 (A) 330p	2kV
C903	1-121-257-11 (B) 4.7	16V elect
CV201	1-141-138-XX (A) 8p	trimmer
RESISTORS		
All resistors are in ohms. Common 1/4W carbon resistors are omitted. Refer to the list on the last page for their part numbers. All variable and adjustable resistors have characteristic curve B, unless otherwise noted. k Ω : 1000 Ω , M Ω : 1000k Ω		
R101	1-206-692-11 (A) 15k	2W metal oxide (nonflammable)
R151-163	1-246-546-11 (A) 8.2M	1/4W carbon

Ref. No.	Part No.	Description
R177	1-244-913-11 (A) 47k	1/4W carbon
R213	1-206-473-11 (A) 27	2W metal oxide (nonflammable)
R214	1-213-124-11 (A) 27	1W metal oxide (nonflammable)
R215	1-213-141-11 (B) 680	1W metal oxide (nonflammable)
R227	1-244-865-11 (A) 470	1/4W carbon
R228	1-213-136-11 (A) 270	1W metal oxide (nonflammable)
R233	1-247-008-11 (A) 180	1/4W carbon (nonflammable)
R239, 240	1-246-875-11 (A) 33	1/4W carbon (nonflammable)
R362	1-244-869-11 (A) 680	1/4W carbon
R367	1-244-907-11 (A) 27k	1/4W carbon
R509	1-206-656-11 (A) 470	2W metal oxide (nonflammable)
R510	1-213-138-11 (A) 390	1W metal oxide (nonflammable)
R511	1-246-989-11 (A) 82	1/8W carbon (nonflammable)
R512	1-244-875-11 (A) 1.2k	1/4W carbon
R513	1-246-985-11 (A) 33	1/8W carbon (nonflammable)
R514	1-246-999-11 (A) 10	1/4W carbon (nonflammable)
R515, 516	1-212-361-11 (A) 1.2	1W metal oxide (nonflammable)
R521	1-212-360-11 (A) 1	1W metal oxide (nonflammable)
R522	1-102-629-11 (A) 220k	1/4W composition
R523	1-213-140-11 (A) 560	1W metal oxide (nonflammable)
R525	1-213-142-11 (A) 820	1W metal oxide (nonflammable)
R526	1-247-016-11 (A) 2.7k	1/4W carbon (nonflammable)
R531	1-213-135-11 (A) 220	1W metal oxide (nonflammable)
R532	1-244-875-11 (A) 1.2k	1/4W carbon

Ref. No.	Part No.	Description
R542	1-213-159-11 (A) 22k	1W metal oxide (nonflammable)
R552	1-244-873-11 (A) 1k	½W carbon
R561	1-213-130-11 (A) 82	1W metal oxide (nonflammable)
R570	1-206-650-11 (A) 270	2W metal oxide (nonflammable)
R571	1-213-134-11 (A) 180	1W metal oxide (nonflammable)
R575, 576	1-246-999-11 (A) 10	½W carbon (nonflammable)
R601	1-217-318-11 (B) 470	5W wirewound (nonflammable)
R602	1-217-328-11 (B) 2.7	7W wirewound (nonflammable)
R603, 604	1-213-163-11 (A) 47k	1W metal oxide (nonflammable)
R605	1-202-724-11 (A) 2.7M	½W composition
R607	1-206-700-11 (A) 33k	2W metal oxide (nonflammable)
R616	1-244-917-11 (A) 68k	½W carbon
R619, 620	1-213-163-11 (A) 47k	1W metal oxide (nonflammable)
R621	1-212-849-11 (B) 4.7	½W fusible (nonflammable)
R622	1-206-833-11 (B) 82k	5W metal oxide (nonflammable)
R623	1-206-896-11 (B) 33k	7W metal oxide (nonflammable)
R635	1-212-361-11 (A) 1.2	1W metal oxide (nonflammable)
R636	1-212-360-11 (A) 1	1W metal oxide (nonflammable)

Ref. No.	Part No.	Description
R640	1-246-979-11 (A) 1.2	1/8W carbon (nonflammable)
R710-712	1-206-692-11 (A) 15k	2W metal oxide (nonflammable)
R713-715	1-202-585-11 (A) 3.3k	½W composition
R716	1-202-629-11 (A) 220k	½W composition
R717	1-202-720-11 (A) 1.2M	½W composition
R718	1-202-543-11 (A) 56	½W composition
R719	1-202-637-11 (A) 470k	½W composition
R720	1-202-633-11 (A) 330k	½W composition
R721	1-202-619-11 (B) 82k	½W composition
R722	1-202-719-11 (B) 1M	½W composition
R723	1-207-612-11 (B) 0.1	½W wirewound
R724	1-202-639-11 (B) 560k	½W composition
R801	1-206-471-11 (A) 22	2W metal oxide (nonflammable)
R802	1-206-642-11 (A) 120	2W metal oxide (nonflammable)
R803	1-244-897-11 (A) 10k	½W carbon
R804	1-247-015-11 (A) 2.2k	½W carbon (nonflammable)
R805	1-205-532-11 (B) 3.3	10W cement coated (nonflammable)
R806	1-202-627-11 (B) 180k	½W composition
R807	1-246-997-11 (A) 1.2	½W carbon (nonflammable)
R808	1-206-469-11 (A) 18	2W metal oxide (nonflammable)
R809	1-246-986-11 (A) 39	1/8W carbon (nonflammable)
R810	1-206-469-11 (A) 18	2W metal oxide (nonflammable)
R811	1-244-859-11 (A) 270	½W carbon
R812	1-206-676-11 (A) 3.3k	2W metal oxide (nonflammable)
R813	1-206-696-11 (A) 22k	2W metal oxide (nonflammable)
R814	1-213-150-11 (A) 3.9k	1W metal oxide (nonflammable)

Ref. No.	Part No.	Description
✱ R817		½W carbon
R818	1-212-849-11 (B) 4.7	½W fusible (nonflammable)
R901	1-202-549-11 (A) 100	½W composition
R902	1-202-784-11 (A) 4.7k	1W composition
R903	1-202-589-11 (A) 4.7k	½W composition
R905	1-202-776-11 (A) 1k	1W composition
RV201	1-224-643-XX (B) 2.2k, adjustable; TU. AGC	
RV301	1-224-643-XX (B) 2.2k, adjustable; U. PHASE	
RV302	1-224-640-XX (B) 330, adjustable; S.M.B	
RV303	1-224-644-XX (B) 4.7k, adjustable; ACC	
RV304	1-222-512-00 (B) 10k, adjustable; B. BKG	
RV305	1-222-512-00 (B) 10k, adjustable; G. BKG	
RV306	1-222-512-00 (B) 10k, adjustable; R. BKG	
RV401	1-224-733-00 (F) 50k, variable; VOLUME	
RV402	1-224-734-00 (F) 1k/1k, variable; PICTURE	
RV451	1-224-571-00 (B) 5k, variable; BRIGHTNESS	
RV452	1-224-571-00 (B) 5k, variable; COLOR	
RV453	1-224-555-00 (B) 50k-D, variable; TONE	
RV501	1-224-972-00 (B) 20k, variable; V. HOLD	
RV502	1-222-807-XX (B) 20k, adjustable; V. SIZE	
RV503	1-221-970-XX (B) 500, adjustable; V. CENT	
RV504	1-221-970-XX (B) 500, adjustable; H. AMP	
RV505	1-221-389-XX (B) 5k, adjustable; H. SHIFT	
RV506	1-222-807-XX (B) 20k, adjustable; Y. BOW	
RV507	1-224-646-XX (B) 22k, adjustable; H. CENT	
RV508	1-224-646-XX (B) 22k, adjustable; H. FREQ	
RV509	1-224-645-XX (B) 10k, adjustable; PIN BIAS	
RV510	1-221-390-XX (B) 3k, adjustable; PIN AMP	
RV601	1-224-643-XX (B) 2.2k, adjustable; 135V ADJ	
RV701	1-224-640-XX (B) 330, adjustable; B. DRIVE	
RV702	1-224-640-XX (B) 330, adjustable; G. DRIVE	
RV703	1-226-157-00 (C) 1M, adjustable; SCR N	

Note:

The components identified by ✱ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Ref. No.	Part No.	Description
RV704	1-226-114-00 (C) 2.2M, adjustable; FOCUS	
RV851	✱ 1-224-774-00 (H) 90M, adjustable; H. STAT	
	1-226-030-00 (M) Variable, CHANNEL PRESET	

MISCELLANEOUS

⇒ DC851	✱ 1-453-071-00 (O) High-voltage Rectifier Block
F601	✱ 1-532-465-00 (C) Fuse, 3.15AT
J901	1-507-539-00 (C) Jack, EARPHONE
NL701	1-519-108-XX (B) Lamp, neon
S451	1-516-473-XX (C) Switch, slide; AFT
S901	✱ 1-552-116-00 (D) Switch, pushbutton; POWER
SG701-705	1-519-063-XX (B) Spark Gap
SG801	
SP901	1-502-650-00 (G) Speaker, 8Ω
⇒ V901	✱ 8-737-602-05 (Z) Picture Tube, 570EB22
X301	1-527-274-00 (G) Crystal
	1-452-032-00 (A) Magnet, disk; 10mm dia
	1-452-060-21 (C) Magnet, BMC
	1-452-094-00 (B) Magnet, rotatable disk; 15mm dia
	1-526-086-XX (B) Socket, picture tube
	✱ 1-526-551-51 (G) Cap, anode
	✱ 1-536-473-00 (I) Terminal, antenna
	✱ 1-551-270-00 Cord, power

PACKING MATERIALS AND ACCESSORIES

Part No.	Description
1-504-034-72	(B) Earphone, ME-20E
3-701-352-00	(A) Bag, polyethylene
4-319-328-00	(A) Tuning Aid
4-323-926-00	(C) Cushion, right; upper
4-323-927-00	(C) Cushion, left; upper
4-323-928-00	(C) Cushion, right; lower
4-323-929-00	(C) Cushion, left; lower
4-323-939-00	(A) Spacer
4-323-940-00	(C) Sheet, protection
4-323-941-00	Carton
4-495-611-11	(E) Manual, instruction